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LAND RESOURCES INFORMATION FOR THE LAKE ERIE DRAINAGE BASIN. V0--ETC(U)
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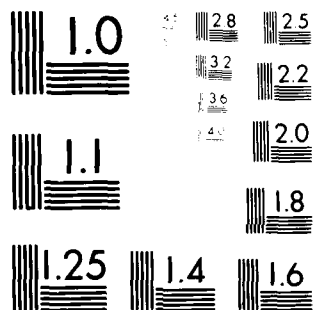
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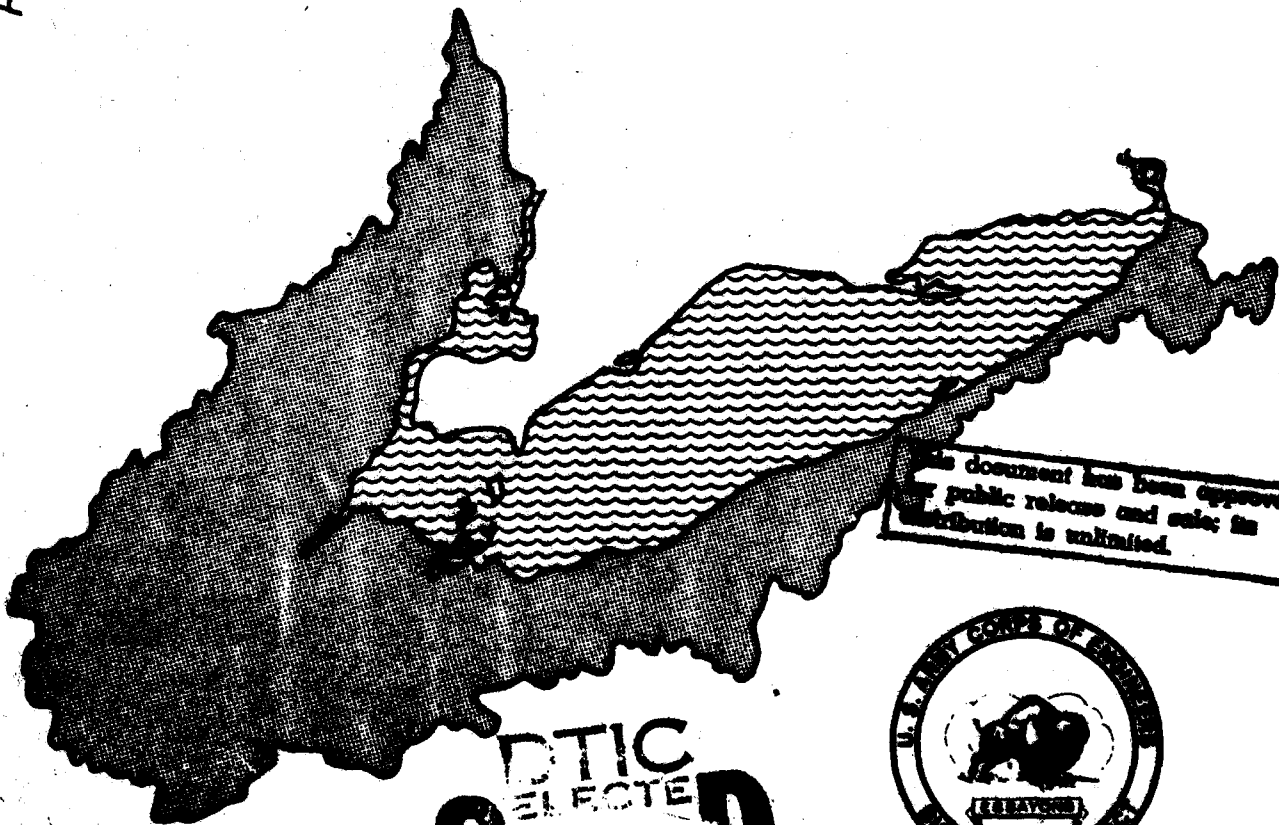
LAND RESOURCES INFORMATION

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FOR THE

LAKE ERIE DRAINAGE BASIN

AD A 098 301



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VOLUME I

LAND RESOURCE SUMMARY

PREPARED FOR THE
LAKE ERIE WASTEWATER
MANAGEMENT STUDY
U.S. ARMY ENGINEER DISTRICT, BUFFALO

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**LAND RESOURCES INFORMATION
FOR THE
LAKE ERIE DRAINAGE BASIN.**

**VOLUME I.
LAND RESOURCE SUMMARY.**

(12) 71

by
**RESOURCE MANAGEMENT ASSOCIATES ✓
WEST CHESTER, PENNSYLVANIA**

(11) Nov 79

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**LAKE ERIE WASTEWATER MANAGEMENT STUDY
U.S. ARMY ENGINEER DISTRICT, BUFFALO
1776 NIAGARA STREET
BUFFALO, NEW YORK
MARCH 1979**

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Introduction

This report is a summary inventory of the land resource features of the United States portion of the Lake Erie Drainage Basin. It is presented in four volumes, of which this is Volume I.

The inventories presented in these volumes have been accomplished through the use of the Lake Erie Land Resources Information System. The LRIS is a georeferenced grid cell-based system which includes spatially arrayed data on land uses, soil phases, minor watershed, and minor civil division location. These four attributes are coded by defined numeric values for each of more than 750,000 grid cells throughout the Lake Erie Basin. The soil phase code is further backed by a soil properties information file which contains physical/chemical properties data on the more than 3,000 soil phases inventoried in the basin.

The computation method used in this report is a simple counting of the unique occurrences of the various attributes. For example, in Volume I, only single features of/and resources are counted. Within a given watershed, each occurrence of a land use is counted. The number of occurrences times a scaling factor representing the land area of each cell gives the area of the basin in each category. In Volume II, III, and IV, unique occurrences of land uses and soil phases or unique soil properties are counted. This type of counting yields categories such as cropland on soils which have slopes in excess of 18 percent, or soils which have high intrinsic erodability (high K factor) and high slopes. Inventories such as these are used to describe watersheds and screen those which may have a high potential for water pollution due to soil erosion.

Description of Land Use and Land Resource Factor Tables

This volume includes the single resource feature summary tables listed in ~~Table 1~~. Each section of the volume lists the subject resource feature for all of the watersheds included in the Lake Erie Wastewater Management Study water pollutant transport studies. They therefore represent a watershed by watershed inventory of land resource features. The resource features listed are;

Table 1 - Tabular Summaries of Land Resource Features

Single Feature Summaries

- Slope;
 - Land Use;
 - Soil Erodability (K Factor);
 - Soil Drainage Class;
 - Soil Permeability (Surface and Limiting Horizon); and
 - Soil Texture.
-

The categories of each feature given in the tables are listed in Table 2. The classes in each summary are generally self explanatory, but a few notes are necessary.

The major land use categories are highly generalized from the raw data contained in the LRIS data files. The generalized codes are those which were used in the running of the soil loss equation for the Lake Erie basin and are a subset of 51 detailed categories. Table 3 lists the codes which were aggregated into the major land use categories. The definitions of these codes are given in (1).

The permeability tables give the permeability of both the surface and most limiting horizon of the soil profile. The first column gives the acreage of the basin with soils which have surface horizon permeability in the 0.01 to 0.09 IN/HR range. The remaining columns give acreage of basins with soils which have their most limiting horizon in any of the given classes.

The intrinsic erodability tables inventory the acreage of each basin in each of the K factor soil erodability groups. The K factor is the soil erodability factor of the Universal Soil Loss Equation.

Slope values are given as ranges of percentage slope of the land. The inventory is actually an accumulation of acreage of all land on soils which had been assigned unique slope values. Unique slope values represent the median value of all slopes observed for each soil as field determined in the, as of this publishing, unpublished United States Department of Agriculture, Soil Conservation Service's 1% National Erosion Study of 1977-78.

Figure 1 is a facsimile of a page from this report. It illustrates the organization and meaning of the information presented. The numbers in each section (a section is as the area outlined by the ellipses in Figure 1) represent one factor of the distribution of the inventory parameter (as listed across the top of the page) within the basin (given at the left of the page) or the entire data set. Referring to the captions in the upper left and the figures in the ellipse: Count represents the land area of the parameter (clay textured soils) in the basin (Basin 1, Maumee at Waterville, OH), 981 square miles of the Maumee River Basin has soils with a clay surface texture; Row percent gives the percentage of the river basin in the parameter class, 18.5 percent of the Maumee River basin has clay textured soils; Column percent gives the percentage of this parameter which is represented in this section for the entire data base, 69.8 percent of all the clay soils counted in the data base are in the Maumee River Basin; and Total percent gives the percentage of the entire data base that is represented in this section, 9.7 percent of all soils counted in the data base are clay textured and in the Maumee River Basin. Unfortunately, it has been impossible to count all three of the Lake Erie LRIS data base sections simultaneously. Therefore, column percent and row percent are representative only of the data base part to which they belong. There are three sections: MAINFILE, SEMCOG, and OCAP. The extent of each part is documented in (1).

Table 2 - Land Resource Feature Summary Categories

<u>Major Land Use Categories</u>	<u>Drainage Characteristics</u>
1. Cropland	1. Very Poorly Drained
2. Vineyard	2. Poorly Drained
3. Pasture	3. Somewhat Poorly Drained
4. Forest	4. Moderately Well Drained
5. Water	5. Well Drained
6. Other	6. Somewhat Excessively Drained
7. Missing	7. Excessively Drained
<u>Permeability, Low Value in Horiz. (In/Hr)</u>	<u>Texture of Surface Horizon</u>
1. Surface .01 to 0.09	1.1 Clay
2. Below .01 to 0.09	1.2 Silty Clay
3. All .10 to 0.19	1.3 Sandy Clay
4. All .20 to 0.59	2.1 Silty Clay Loam
5. All .60 to 1.9	2.2 Clay Loam
6. All 2.0 to 5.9	2.3 Sandy Clay Loam
7. All 6.0 or GTR	3.1 Loam
<u>Intrinsic Erodability (K Factor)</u>	3.2 Silty Loam
0.10 0.10	3.3 Very Fine Sandy Loam
0.15 0.15	3.4 Silt
0.17 0.17	4.1 Sandy Loam
0.20 0.20	4.2 Fine Sandy Loam
0.24 0.24	5.1 Sand
0.28 0.28	5.2 Fine Sand
0.32 0.32	5.3 Very Fine Sand
0.37 0.37	5.4 Loamy Sand
0.43 0.43	5.5 Loamy Fine Sand
0.49 0.49	5.6 Loamy Very Fine Sand
<u>Slope Value (%)</u>	6.1 Muck
0.2 Less than 0.2	7.1 Nonsoil
0.5 0.5	7.2 Urban Land Complex
1.0 1.0	
2.0 2.0	
4.0 3-5	
7.0 6-8	
10.0 9-11	
13.0 12-14	
16.0 15-17	
18.0 18 or GTR	

Table 3 - Generalized Land Use Summary LRIS Code Aggregation

Major Land Use Category	:	LRIS Land Use Codes Included
Cropland	:	20, 21, 22, 24, 26, 29, 30
Vineyard/Orchard	:	23
Grassland	:	16, 18, 25, 27, 28, 31, 84, 87
Woodland	:	41-45
Water	:	51-55
Other Land Uses	:	8-15, 17, 19, 61, 61, 71-76, 81-83, 85, 86, 88

Figure I - Example of Single Feature Summary - Inventory of Soil Textures by Major Watersheds

Count (mi ²)	Clay	Silty Clay	Silty	Clay	Sandy Clay	Loam	Silty Loam	VF Loam	Sandy Loam	FM Sandy Loam	Fine Sand	Loam	Muck	Row Total
Row Pct	Clay	Silty Clay	Silty	Clay	Sandy Clay	Loam	Silty Loam	VF Loam	Sandy Loam	FM Sandy Loam	Fine Sand	Loam	Muck	Row Total
Col Pct	Clay	Silty Clay	Silty	Clay	Sandy Clay	Loam	Silty Loam	VF Loam	Sandy Loam	FM Sandy Loam	Fine Sand	Loam	Muck	Row Total
Tot Pct	Clay	Silty Clay	Silty	Clay	Sandy Clay	Loam	Silty Loam	VF Loam	Sandy Loam	FM Sandy Loam	Fine Sand	Loam	Muck	Row Total
Basin 1	981	240	1259	73	19	797	1389	5	3	225	105	34	19	65
Maumee at Waterville, OH	18.5	4.5	23.8	1.4	0.4	15.0	26.2	0.1	0.1	4.2	2.0	0.6	0.4	1.6
	69.8	45.7	66.4	35.9	35.5	64.1	36.7	24.7	27.8	75.3	37.5	36.1	53.1	74.9
	9.7	2.4	12.4	0.7	0.2	7.8	13.7	0.1	0.0	2.2	1.0	0.3	0.2	0.6
Basin 2	179	0	41	9	25	44	48	0	0	4	14	0	0	386
Portage at Woodville, OH	46.3	0.0	10.5	2.3	6.6	11.3	12.4	0.0	0.0	0.9	3.6	0.1	0.0	6.0
	12.7	0.0	2.1	4.8	46.3	3.5	1.3	0.5	0.0	1.2	4.9	0.5	0.0	10.2
	1.8	0.0	0.4	0.1	0.2	0.4	0.5	0.0	0.0	0.0	0.1	0.0	0.0	0.2
Basin 3	11	0	198	2	0	42	607	2	0	2	10	1	0	4
Sandusky at Fremont, OH	1.3	0.0	22.2	0.2	0.0	4.7	68.0	0.2	0.0	0.3	1.1	0.1	0.0	0.5
	0.8	1.2	10.5	1.0	0.0	3.4	16.0	9.1	0.0	0.8	3.5	1.3	0.5	2.0
	0.1	0.1	2.0	0.0	0.0	0.4	6.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0
Basin 31	0	1	58	0	0	40	235	0	0	2	9	0	0	6
Maumee at Milan, OH	0.0	0.4	15.1	0.0	0.0	11.1	65.6	0.0	0.0	0.6	2.6	0.1	0.1	1.6
	0.0	0.3	0.0	0.0	0.0	3.2	6.2	0.0	0.0	0.7	3.3	0.2	1.1	2.5
	0.0	0.0	0.0	0.0	0.0	0.4	2.3	0.0	0.0	0.0	0.1	0.0	0.0	0.1
Basin 33	0	0	20	0	0	15	165	0	0	0	1	0	0	1
Vermilion near Vermilion, OH	0.0	0.0	12.5	0.0	0.0	7.3	78.4	0.0	0.0	0.1	0.5	0.0	0.0	0.4
	0.0	0.0	1.4	0.0	0.0	1.2	4.4	0.0	0.0	0.1	0.4	0.0	0.0	0.4
	0.0	0.0	0.3	0.0	0.0	0.2	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Basin 34	0	0	0	0	0	39	352	2	0	5	2	0	0	2
Catawagus at Gowanda, NY	0.0	0.0	0.0	0.0	0.0	9.7	87.3	0.5	0.0	1.4	0.5	0.0	0.0	0.5
	0.0	0.0	0.0	0.0	0.0	3.2	9.3	8.7	0.0	1.6	0.7	0.0	0.0	2.5
	0.0	0.0	0.0	0.0	0.0	0.4	3.5	0.0	0.0	0.1	0.0	0.0	0.0	0.0
Basin 36	0	0	0	0	0	0	4	0	0	0	0	0	0	6
Delaware near Angola, NY	0.0	0.0	0.0	0.0	0.0	7.1	71.4	1.8	0.0	0.0	3.6	0.0	0.0	16.1
	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.5	0.0	0.0	0.1	0.0	0.0	0.4
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

981 Sq. Mi. of clay soils in the Maumee River Watershed
 18.5 Percent of the Maumee River Watershed
 69.8 Percent of the clay soils in the Mainfile Data File*
 9.7 Percent of all land in the Mainfile Data File

* Must be added to SEMCOG and OCAP data files to determine percent of total U. S. Lake Erie Watershed.

COOCCURRENCE TABLES

FILE MFI CREATION DATE = 11/07/79A BUFFALO DIST., CCE LAKE ERIE LRIS

***** C R O S S T A B U L A T I O N O F *****
 BASIN SAMPLING STATION BASIN BY SLOPE DON URBEN SLOPE VALUE *****
 ***** PAGE 1 OF 2 *****

SLOPE

COUNT ROW PCT COL PCT TOT PCT	SLOPE																18 OR GREATER	ROW TOTAL
	LESS THAN 0.5	0.5	1.0	2.0	3-5	6-8	9-11	12-14	15-17	18-01								
BASIN		0.2																
	1.	2262	524	992	81	1250	7	124	11	26	14	5299						52.2
		42.7	9.9	18.7	1.5	23.8	0.1	2.3	0.2	0.5	0.3	52.2						52.2
		64.9	52.6	95.5	11.0	65.1	1.2	20.8	53.7	67.7	8.7	52.2						52.2
PORTAGE & WOODV		22.3	5.2	9.8	0.8	12.4	0.1	1.2	0.1	0.3	0.1							
	2.	221	54	6	5	91	6	3	0	0	0	386						3.8
		57.2	13.9	1.5	1.4	23.5	1.7	0.9	0.0	0.0	0.0	3.8						3.8
		6.3	5.4	0.3	0.7	4.7	1.1	0.8	0.5	0.0	0.0	3.8						3.8
SANDUSKY & FRM		2.2	0.5	0.1	0.1	0.9	0.1	0.0	0.0	0.0	0.0							
	3.	169	73	346	7	256	1	27	0	6	6	892						8.8
		19.0	8.2	38.8	0.8	28.8	0.1	3.1	0.0	0.7	0.6	8.8						8.8
		4.8	7.3	19.5	1.0	13.3	0.2	6.8	0.5	15.3	3.6	8.8						8.8
HURON & MILAN		1.7	0.7	3.4	0.1	2.5	0.0	0.3	0.0	0.1	0.1							
	31.	10	39	64	157	28	50	2	5	1	1	359						3.5
		2.7	11.0	18.0	43.8	7.8	13.9	0.7	1.5	0.3	0.4	3.5						3.5
		3.3	4.0	3.6	21.4	1.4	8.3	0.6	26.6	2.4	0.9	3.5						3.5
VERMILION NR VER		0.1	0.4	0.6	1.5	0.3	0.5	0.0	0.1	0.0	0.0							
	33.	3	11	36	99	31	15	9	2	2	3	210						2.1
		1.4	5.1	17.1	46.9	15.0	7.3	4.2	0.8	1.0	1.3	2.1						2.1
		0.1	1.1	2.0	13.4	1.6	2.5	2.2	7.9	5.3	1.7	2.1						2.1
CAITARAUGUS & GO		0.0	0.1	0.4	1.0	0.3	0.2	0.1	0.0	0.0	0.0							
	34.	2	11	15	56	5	139	106	0	0	0	403						4.0
		0.5	2.7	3.8	13.8	1.3	36.2	26.3	0.0	0.0	0.0	4.0						4.0
		0.1	1.1	0.9	7.6	0.3	22.9	26.4	0.0	0.3	43.8	4.0						4.0
DELAWARE NR ANGO		0.0	0.1	0.1	0.5	0.1	1.4	1.0	0.0	0.0	0.7							
	36.	0	0	0	4	0	2	0	0	0	0	6						0.1
		0.0	1.8	0.0	64.3	0.0	32.1	0.0	0.0	0.0	1.8	0.1						0.1
		0.0	0.0	0.0	0.5	0.0	0.3	0.0	0.0	0.0	0.0	0.1						0.1
COLUMN TOTAL		3488	997	1776	733	1932	602	402	20	38	160	10148						100.0
		36.4	5.9	17.5	7.2	15.0	5.9	4.0	0.2	0.4	1.6	100.0						100.0

(CONTINUED)

COOCCURRENCE TABLES

FILE MFI ICREATION DATE = 11/07/78) BUFFALO DIST., CCE LAKE ERIE LRIS

***** C R O S S T A B U L A T I O N O F *****
 BASIN SAMPLING STATION BASIN BY SLOPE DOW URBAN SLOPE VALUE *****
 ***** PAGE 2 OF 2 *****

COUNT		SLOPE														18 OR GREATER	ROW TOTAL
ROW PCT	COL PCT	0.2	0.5	1.0	2.0	3-5	6-8	9-11	12-14	15-17	16.01	18.01					
BASIN		0	0	1	1	4	0	9	10	0	0	0	9				
18 MILE CR NR B		0.0	0.6	2.3	13.2	0.0	27.9	29.3	29.3	0.0	0.0	0.0	26.7				
		0.0	0.0	0.0	0.6	0.0	0.0	1.6	2.5	0.0	0.0	0.0	5.7				
		0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.0	0.0	0.1				
		0	1	0	0	0	0	2	0	0	0	0	0				
RACON CR @ W SP		0.0	18.2	9.1	3.0	9.1	51.5	6.1	6.1	0.0	0.0	0.0	3.0				
		0.0	0.1	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.1				
		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
		0	0	0	0	0	0	4	1	0	0	0	1				
MILL CR @ ERIE		0.0	4.9	6.2	3.7	6.2	55.6	7.4	7.4	0.0	0.0	0.0	16.0				
		0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.1	0.0	0.0	0.0	0.8				
		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
		0	0	0	0	0	0	0	0	0	0	0	0				
DIRECT DRAINAGE		32.2	11.1	12.4	12.6	10.2	14.4	4.7	4.7	0.1	0.1	0.1	56				
		23.5	28.5	17.7	43.7	13.5	60.8	29.7	29.7	10.8	9.0	34.8	25.1				
		8.1	2.8	3.1	3.2	2.6	3.6	1.2	1.2	0.0	0.0	0.5	2548				
COLUMN		3488	997	1776	733	1932	602	402	20	38	160	10148	10148				
TOTAL		34.4	9.8	17.5	7.2	19.0	5.9	4.0	0.2	0.4	1.6	100.0	100.0				

NUMBER OF MISSING OBSERVATIONS = 1717

LCE LRIS CRUSSTABS UPDATE

FILE MFI (CREATION DATE = 11/10/78) BUFFALO DIST., COE LAKE ERIE LRIS

***** C R G S T A B U L A T I O N U F *****
 BASIN SAMPLING STATION BASIN BY SLOPE DON URBAN SLOPE VALUE *****
 ***** PAGE 1 OF 3 *****

COUNT ROW PCT	SLOPE												18 OR GREATER	ROW TOTAL
	LESS THAN 0.2	0.21	0.51	1.0	2.0	3-5	6-8	9-11	12-14	15-17	16.01			
BASIN	110	46	177	150	0	20	0	5	1	5	5	514	23.8	
SANDUSKY @ MEX	21.4	8.9	34.4	0.1	29.2	0.0	3.9	1.1	1.0	1.1	1.0	235	10.9	
SANDUSKY @ UP SA	43	22	74	0	82	0	11	2	0	0.8	0.9	80	3.7	
SANDUSKY @ BUC	13	7	28	0	27	0	4	0	0	0.6	1.1	121	5.6	
TYMCHEE @ CRAW	41	10	43	0	22	0	3	0	1	1	1	74	3.4	
BRCKEN SWD @ NEV	11.1	8.9	32.6	0.0	40.6	0.0	5.4	0.0	0.1	0.3	0	57	2.7	
WOLF, WEST @ BET	27	1	24	0	6	0	0	0	0	0	0	45	2.1	
WOLF, EAST @ FT S	16.2	2.7	63.4	0.0	17.7	0.0	0.0	0.0	0.0	0.0	0	176	8.2	
MONEY CR @ MD	11	14	62	7	56	1	4	0	0	0	0	165	7.6	
MONEY CR @ 231	6.4	8.0	46.6	3.8	32.0	0.6	2.2	0.0	0.1	0.2	0	147	6.8	
MONEY CR @ HELM	10	11	72	7	43	1	2	0	0	0	0	118	5.4	
MONEY CR UP SIL	10	10	57	7	31	1	2	0	0	0	0	2161	100.0	
COLUMN TOTAL	323	178	845	57	611	25	83	9	24	0.4	1.1	24	100.0	
	15.0	8.3	39.3	2.6	28.3	1.1	3.8	0.4	1.1	0.0	0.4	1.1		

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CCE LRIS CROSSTABS UPDATE

FILE MF1 (CREATION DATE = 11/10/78) BUFFALO DIST., LAKE ERIE LRIS

***** C R C S T A B U L A T I O N L F *****
 BASIN SAMPLING STATION BASIN BY SLOPE DUN URBAN SLOPE VALUE
 ***** PAGE 2 OF 3

COUNT ROM PCT	SLOPE															RON TOTAL
	LESS THAN 0.2	0.2-1	0.5	1.0	2.0	3-5	6-8	9-11	12-14	15-17	18 OR GREATER					
BASIN	9	10	40	7	25	1	1	1	0	0	0	0	0	0	0	93
MONEY CR UP AIC	9.6	10.6	42.5	7.2	26.5	1.2	1.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3
MONEY CR UP ATT	9	8	30	7	17	1	1	1	0	0	0	0	0	0	0	73
	12.0	11.6	41.0	9.2	22.9	1.5	1.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4
MONEY CR @ WEIS	4	3	5	1	7	0	0	1	0	0	0	0	0	0	0	25
	17.3	11.8	33.7	5.5	27.1	0.4	4.3	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2
MONEY CR MARSH	2	4	25.6	2	15.6	10.2	3.9	1.6	0	0	0	0	0	0	0	13
	14.8	28.1	25.6	2	15.6	10.2	3.9	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6
MONEY CR MR WAYN	3	2	4	0	4	0	0	1	0	0	0	0	0	0	0	15
	22.6	16.4	25.5	0.0	26.7	0.0	4.8	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7
M.C. TRIB BEL MO	0	0	2	0	3	0	0	0	0	0	0	0	0	0	0	5
	2.0	2.0	38.6	0.0	57.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
M.C. TRIB BUCKEY	0	0	2	0	1	0	0	1	0	0	0	0	0	0	0	5
	2.1	6.3	52.1	0.0	29.2	0.0	10.4	10.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
M.C. TRIB SILVER	0	1	13	0	9	0	0	0	0	0	0	0	0	0	0	23
	1.7	4.3	54.5	0.0	37.7	0.0	1.7	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1
M.C. TRIB SILVER	0	1	7	0	6	0	0	0	0	0	0	0	0	0	0	15
	2.6	5.2	48.4	0.0	41.3	0.0	2.6	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7
M.C. TRIB SILVER	0	0	5	0	5	0	0	0	0	0	0	0	0	0	0	11
	1.8	3.5	42.4	0.0	47.8	0.0	3.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
M.C. TRIB AICH	0	0	12	0	3	0	0	0	0	0	0	0	0	0	0	16
	2.6	0.6	75.5	0.0	17.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7
COLUMN TOTAL	323	178	845	57	611	25	83	83	0	0	0	0	24	1.1	100.0	2181
15.0	8.3	39.2	2.6	28.3	1.1	3.8	3.8	3.8	0.0	0.4	1.1	0.4	1.1	0.4	1.1	100.0

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(CONTINUED)

GCE LPIS CRESSTABS UPDATE

FILE MF1 CREATION DATE = 11/10/78) BUFFALO DIST. SLOPE LAKE ERIE LRIS

***** LULS STATION C F *****
 BASIN SAMPLING STATION BASIN BY SLOPE DON URBAN SLOPE VALUE ***** PAGE 3 OF 3

COUNT FROM PLOT	SLOPE																ROW TOTAL
	0-2	0-5	1-0	2-0	3-5	4-0	5-0	6-8	7-0	8-0	9-11	10-0	11-0	12-14	13-0	14-0	
BASIN	0.2	0.21	0.51	1.01	2.01	3.01	4.01	5.01	6.01	7.01	8.01	9.01	10.01	11.01	12.01	13.01	14.01
26. H.C. TRIB W. KN	2	1	11	1	1	1	1	1	1	1	1	1	1	1	1	1	19
8.4	4.7	56.0	3.1	26.7	3.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9
27. H.C. TRIB @ SCOT	1	0	32.2	0.0	35.5	1	1	1	1	1	1	1	1	1	1	1	3
19.4	6.5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1
28. H.C. TRIB ALKER	1	1	33.3	0.0	7.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4
28.2	30.8	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2
29. ROCK CR EAST	0	0	45.5	0.0	45.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11
0.9	4.5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5
30. ROCK CR WEST	0	0	11	0	14	0	1	1	1	1	1	1	1	1	1	1	28
0.7	4.6	38.4	0.0	51.8	0.0	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3
32. MURCN TRIB NORM	0	0	6.5	73.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5
0.0	4.3	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2
35. CATTARAUGUS S B	0	0	1	9	0	17	0	0	0	0	0	0	0	0	0	0	64
0.0	2.3	1.4	14.3	0.0	25.7	33.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0
COLUMN TOTAL	323	178	845	57	611	25	83	25	1.1	3.8	0.0	0.0	0.0	0.0	0.0	0.0	2161
15.0	8.3	35.2	2.6	28.3	1.1	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0

CHI SQUARE = 1302.92432 WITH 252 DEGREES OF FREEDOM SIGNIFICANCE = 0.0000
 CRAMER'S V = 0.25805

NUMBER OF MISSING OBSERVATIONS = 417

COOCCURRENCE TABLES

FILE C0CUB3 (CREATION DATE = 02/16/79) BUFFALO DIST., COE LAKE ERIE LAND RESOURCE INFO SYSTEM

***** C R O S S T A B U L A T I O N O F *****
 BASIN SAMPLING STATION BASIN BY SLOPE DCM URBAN SLOPE VALUE *****
 ***** PAGE 1 OF 4 *****

COUNT ROW PCT	SLOPE																TOTAL
	MISSING	LESS THAN 0.5 C.2		1.0	2.0	3-5	6-8	9-11	12-14	15-17							
	0	1	2	3	4	5	6	7	8	9							
BASIN	0	1	2	3	4	5	6	7	8	9							
BELLE R @ MEMPH	8	20	14	50	1	45	0	12	0	3	154						
	5.0	12.8	8.9	32.5	0.5	29.4	0.0	7.7	0.0	1.9	2.4						
BLACK R @ FARGO	14	51	20	312	2	57	3	14	0	2	475						
	3.0	10.7	4.1	65.6	0.5	11.9	0.6	2.9	0.0	0.5	7.3						
CLINTON R @ MT	412	60	31	142	9	84	0	18	0	4	763						
	54.0	7.9	4.1	18.7	1.2	11.0	0.0	2.3	0.0	0.5	11.7						
MURON R @ S MET	267	102	20	46	42	169	0	76	0	19	761						
	35.1	13.4	2.7	6.1	5.5	22.1	0.0	10.0	0.0	2.5	11.7						
MILL CR @ AVOCA	6	22	10	66	0	49	0	9	0	2	165						
	3.8	13.1	6.2	39.8	0.1	30.0	0.0	5.4	0.0	1.2	2.5						
RASIN R @ MR MON	167	48	217	55	143	242	0	100	0	19	1615						
	16.5	4.7	21.4	5.5	14.1	23.8	0.0	9.8	0.0	1.9	15.6						
ROUGE R @ W. JEF	313	24	17	35	28	46	0	16	0	2	480						
	65.1	5.0	3.5	7.2	5.7	9.6	0.0	3.2	0.0	0.4	7.4						
BLACK R @ ELV	70	1	30	178	5	103	1	14	0	1	410						
	17.0	0.4	7.3	43.4	1.3	25.0	0.3	3.4	0.0	0.3	6.3						
ROCKY @ BERA	96	1	17	69	2	83	0	24	0	1	267						
	21.0	0.2	6.3	25.8	0.7	31.2	0.0	9.1	0.0	0.5	4.1						
CUYAMOGA @ IND	280	16	28	87	1	214	8	74	8	13	701						
	35.6	2.3	4.0	12.4	0.1	30.6	0.0	10.7	0.0	1.8	10.7						
EUCLID CR	13	0	0	6	0	3	0	0	0	0	23						
	54.3	0.0	2.0	24.1	1.1	12.6	0.0	0.3	0.0	1.4	0.4						
BIG CR @ CLVO	28	0	0	3	0	3	0	1	0	1	38						
	75.6	0.0	1.1	7.7	0.4	9.0	0.0	2.1	0.0	1.3	0.6						
COLUMN TOTAL	1938	345	683	1205	271	1389	66	434	0	77	6524						
TOTAL	29.7	5.3	10.5	18.5	4.2	21.3	1.0	6.6	0.0	1.2	100.0						

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COOCCURRENCE TABLES

FILE COCUP1 (CREATION DATE = 07/16/79) BUFFALO DIST., COE LAKE ERIF LAND RESOURCE INFO SYSTEM

***** C R O S S T A B U L A T I O N O F *****
 BASIN SAMPLING STATION BASIN BY SLOPE DON URBAN SLOPE VALUE *****
 ***** PAGE 2 OF 4 *****

BASIN	COUNT		SLOPE		ROW PCT	TOTAL
	1	2	118 OR GREATER	10		
BELLE R @ MEMPH	60	2	1.3	1.3	154	2.4
BLACK R @ FARGO	41	1	0.1	0.1	475	7.3
CLINTON R @ MT	42	2	0.3	0.3	763	11.7
HURON R @ S MET	44	20	2.6	2.6	761	11.7
MILL CR @ AVOCA	45	1	0.4	0.4	165	2.5
RASIN R @ MON	46	23	2.3	2.3	1015	15.6
ROUGE R @ W. JEF	47	1	0.1	0.1	480	7.4
BLACK R @ ELY	48	7	1.6	1.6	410	6.3
ROCKY @ BEREA	51	14	5.2	5.2	267	4.1
CUYAHOGA @ IND	52	18	2.5	2.5	701	10.7
FUELIO CR	63	1	4.0	4.0	23	0.4
BIG CR @ CLVD	64	1	2.5	2.5	39	0.6
COLUMN TOTAL	117	1.8			6326	100.0

(CONTINUED)

COOCCURRENCE TABLES

FILE C00U3 (CREATION DATE = 02/16/79) BUFFALO DIST., CCE LAKE EPIE LAKE RESOURCE INFO SYSTEM

***** C P O S S I B I L I T Y O F *****
 BASIN SAMPLING STATION BASIN BY SLOPE DOWN URBAN SLOPE VALUE *****
 ***** PAGE 3 OF 4 *****

BASIN	COUNT ROW PCT	SLOPE											TOTAL
		MISSING	LESS THAN 0.2	0.5	1.0	2.0	3-5	6-8	9-11	12-14	15-17		
CHAGRIN @ MIL	65	0	1	2	3	4	5	6	7	8	9		245
		32	1	17	36	2	103	0	32	0	6		3.8
		13.1	0.2	7.0	14.6	0.7	42.1	0.0	13.0	0.0	2.6		
GRAND @ PAIN	66	286	0	190	57	10	130	0	21	0	2		704
		40.6	0.1	27.0	8.1	1.4	18.5	0.0	3.0	0.0	0.3		10.8
ASHTABULA R	69	7	0	56	14	5	42	4	8	0	0		137
		5.0	0.0	41.2	10.4	3.4	30.6	2.9	6.2	0.0	0.3		2.1
CCMNEAUT CR	71	11	0	16	50	22	15	58	15	0	0		189
		5.6	0.0	8.3	26.3	11.6	7.9	30.5	7.7	0.0	0.0		2.9
COLUMN TOTAL	1938	345	683	1205	271	1389	66	436	77	0	77		6526
	29.7	5.3	10.5	18.5	4.2	21.3	1.0	6.6	1.2	0.0	1.2		100.0

(CONTINUED)

COOCCURRENCE TABLES

FILE C00U03 CREATION DATE = 02/16/79) BUFFALO DIST., COE LAKE ERIE LAND RESOURCE INFO SYSTEM

..... C R O S T A B U L A T I O N O F
 BASIN SAMPLING STATION BASIN BY SLOPE DON URBAN SLOPE VALUE
 PAGE 4 OF 4

	COUNT	SLOPE	ROW	TOTAL
	ROW PCT	10 OR GREATER		
BASIN		10		
CHAGRIN B WIL	65	16	245	
		6.7	3.8	
GRAND B PAIM	66	8	704	
		1.1	10.8	
ASHTABULA R	65	0	137	
		0.0	2.1	
CCWNEAUT CR	71	4	189	
		2.0	2.9	
COLUMN TOTAL		117	6526	
		1.8	100.0	

COOCCURRENCE TABLES

FILE CDEUM3 ICPEATION DATF - 02/16/79) BUFFALO DIST., CUE LMF ERIE LAND PESOURCE INFO SYSTEM

***** C O D S S T A B U L A T I C M *****
 BASIN SAMPLING STATION PASIN BY SLOPE DON URBAN SLOPE VALUE ***** PAGE 1 OF 2

	COUNT	SLOPE										18 OR	ROM
	ROW PCT	MISSING	LESS THAN	0.5	1.0	2.0	3-5	9-11	15-17	18 OR	GREATER	10	TOTAL
BASIN	43	0	1	2	3	4	5	7	9	10			
SASHABAN CR & DR	90.5	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.0	0.1			24
													1.0
BLACK PLUM CR	20.3	0.3	1	6.7	65.3	0.0	9.2	0.3	0.0	0.0			14
													1.0
BLACK NEFF CR	6.9	0.0	0	4.6	59.4	0.0	22.3	1.7	0.0	0			6
													0.5
CUYAHOGA & OLD	178	11	5	44	44	0	108	36	4	1			392
	45.4	2.8	2.3	11.3	11.3	0.0	27.5	9.2	1.1	0.3			28.2
CUYAHOGA & PENIN	197	13	15	55	55	0	150	52	7	7			496
	39.7	2.6	3.1	11.1	11.1	0.0	30.2	10.4	1.4	1.5			35.7
CUYAHOGA & MIRAM	108	1	2	8	8	0	24	5	1	0			150
	72.2	0.5	1.2	5.6	5.6	0.0	16.3	3.5	0.6	0.2			10.0
LITTLE CUYAHOGA	32	2	1	6	6	0	14	6	1	0			62
	52.7	3.8	1.6	9.0	9.0	0.0	22.8	9.1	0.9	0.1			6.4
MUD CR	5	1	2	5	5	0	12	3	0	0			29
	16.1	4.8	5.6	16.9	16.9	0.0	42.4	11.7	1.5	1.0			2.1
YELLOW CREEK	3	0	2	3	3	0	14	6	1	2			31
	10.7	1.5	5.0	8.9	8.9	0.0	45.0	20.3	2.9	5.7			2.2
FURNACE CR	2	0	1	2	2	0	9	3	1	3			20
	10.2	0.0	4.8	12.2	12.2	0.0	46.0	12.7	2.7	13.4			1.4
BRANDYME CR	4	0	2	5	5	0	12	3	0	1			27
	16.4	0.7	6.6	20.0	20.0	0.0	42.8	10.2	0.3	2.9			1.9
CHEPPEWA CR	3	0	1	4	4	0	6	2	0	2			18
	18.5	0.0	3.6	22.6	22.6	0.0	33.7	8.7	2.0	10.9			1.3
COLUMN TOTAL	600	31	41	167	167	1	386	127	17	20			1390
ROW TOTAL	43.2	2.2	3.0	12.0	12.0	0.0	27.8	9.1	1.2	1.5			100.0

(CONTINUED)

COOCCURRENCE TABLES
 FILE C00003 (CREATION DATE = 02/16/70) BUFFALO DIST. COE LAKE ERIE LAND RESOURCE INFO SYSTEM
 C P O S T A B U L A T I O N P F
 BASIN SAMPLING STATION BASIN BY SLOPE NON URBAN SLOPE VALUE
 PAGE 2 OF 2

	COUNT ROW PCT	SLOPE										18 OR GREATER	ROW TOTAL
		MISSING	LESS THAN 0.2	0.5	1.0	2.0	3-5	9-11	15-17				
BASIN	62	27	1	5	17	0	30	10	2	4	97		
TINKERS CR	27.7	1.4	5.3	17.9	0.4	30.6	10.7	2.4	3.7	7.0			
HECKINS CR	67	5	0	0	0	0	0	0	0	0	5		
	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4			
MONTVILLE D	68	5	0	0	0	0	0	0	0	0	5		
	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4			
MUDDARD RUN	70	3	0	1	4	0	5	1	0	0	15		
	18.7	0.0	9.8	27.8	1.0	33.7	9.1	0.0	0.0	1.1			
COLUMN TOTAL	600 43.2	31 2.2	41 3.0	167 12.0	1 0.0	386 27.9	127 9.1	17 1.2	20 1.5	1390 100.0			

COOCCURRENCE TABLES

FILE MFI CREATION DATE = 11/07/781 BUFFALO DIST., COE LAKE ERIE LRIS

***** C R O S S T A B U L A T I O N O F *****
 BASIN SAMPLING STATION BASIN BY LL MAJOR LAND USE CATEGORIES
 ***** PAGE 1 OF 2 *****

COUNT		LU										ROW TOTAL
ROW PCT	COL PCT	1.1	2.1	3.1	4.1	5.1	6.1	7.1	8.1	9.1	10.1	
TOT PCT	TOT PCT											
BASIN												
1.	4746	1	202	526	218	588	6281					
MAUMEE & WATERVI	75.6	0.0	3.2	8.4	3.5	9.4	52.9					
	57.2	5.1	37.0	36.1	64.8	47.8						
	40.0	0.0	1.7	4.4	1.8	5.0						
PERTAGE & WOODV												
2.	342	0	14	22	3	17	395					
	85.5	0.0	3.6	5.6	0.9	4.3	3.4					
	4.1	0.0	2.7	1.5	1.0	1.4						
	2.9	0.0	0.1	0.2	0.0	0.1						
SANDUSKY & FRM												
3.	989	0	28	111	25	84	1237					
	79.9	0.0	2.3	8.9	2.0	6.8	10.4					
	11.9	0.0	5.2	7.6	7.3	6.9						
	8.3	0.0	0.2	0.9	0.2	0.7						
HURON & MILAN												
31.	275	0	13	46	8	23	366					
	75.3	0.1	3.5	12.5	2.2	6.4	3.1					
	3.3	2.9	2.4	3.1	2.3	1.9						
	2.3	0.0	0.1	0.4	0.1	0.2						
VERMILION NR VER												
33.	151	0	9	41	2	12	216					
	70.0	0.0	4.3	18.9	1.2	5.6	1.8					
	1.8	0.6	1.7	2.8	0.7	1.0						
	1.3	0.0	0.1	0.3	0.0	0.1						
CAITARAUGUS & GO												
34.	179	1	30	165	10	39	425					
	52.2	0.3	7.2	38.9	2.4	9.2	3.6					
	2.2	6.3	5.6	11.4	3.0	3.2						
	1.5	0.0	0.3	1.4	0.1	0.3						
DELAWARE NR ANGO												
36.	4	0	0	2	0	1	7					
	57.6	0.0	4.5	27.3	1.5	9.1	0.1					
	0.0	0.0	0.1	0.1	0.0	0.0						
	0.0	0.0	0.0	0.0	0.0	0.0						
COLUMN TOTAL	8292	17	545	1455	337	1230	11876					
TOTAL	69.8	0.1	4.6	12.2	2.8	10.4	100.0					

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(CONTINUED)

CODDURRENCE TABLES

FILE MFI CREATION DATE = 11/27/78) BUFFALO DIST., CCF LONG ERIE LRS
 BASIN CUSSTABULATION OF MAJOR LAND USE CATEGORIES
 SAMPLING STATION BASIN BY LC
 PAGE 2 OF 2

LU										
COUNT	CROPLAND	VINEYARD	PASTURE	FOREST	WATER	OTHER	POTENTIAL			
ROW PCT	1.1	2.1	3.1	4.1	5.1	6.1	TOTAL			
COL PCT	1.1	2.1	3.1	4.1	5.1	6.1	TOTAL			
TOT PCT	1.1	2.1	3.1	4.1	5.1	6.1	TOTAL			
37.	12	0	2	17	0	4	35			
10 MILE CR NR B	33.7	0.0	5.7	49.6	0.0	11.0	0.3			
	0.1	0.0	0.4	1.2	0.0	0.3				
	0.1	0.0	0.0	0.1	0.0	0.0				
38.	1	0	0	2	0	0	3			
RACON CR 3 W SP	30.3	0.0	6.1	54.5	0.0	9.1	0.0			
	0.0	0.0	0.0	0.1	0.0	0.0				
	0.0	0.0	0.0	0.0	0.0	0.0				
39.	1	0	1	2	0	3	8			
MILL CR 2 ERIE	13.4	2.4	14.6	29.3	1.2	39.0	0.1			
	0.0	1.1	0.2	0.2	0.0	0.3				
	0.0	0.0	0.0	0.0	0.0	0.0				
80.	1592	15	244	521	79	458	2899			
DIRECT DRAINAGE	54.9	0.5	8.4	18.0	2.4	15.8	24.4			
	19.2	24.0	44.8	35.8	20.7	37.2				
	13.4	0.1	2.1	4.4	0.6	3.9				
COLUMN	8292	17	545	1455	337	1230	11876			
TOTAL	69.8	0.1	4.6	12.2	2.8	10.4	100.0			

CDE LRIS CRUSSTANS UPDATE

FILE #F1 (CREATION DATE = 11/10/76) BUFFALO DIST., CUP LAKE EMIE LRIS

***** C R L S T A B U L A T I O N U F *****
 BASIN SAMPLING STATION BASIN ***** MAJOR LAND USE CATEGORIES *****
 ***** PAGE 1 OF 3 *****

	COUNT	LU	ROW PCT	CROPLAND	PASTURE	FCREST	WATER	OTHER	ROW TOTAL
BASIN			1.1	3.1		4.1	5.1	6.1	
SANDUSKY @ MEA	4.	613	18	64	16	51			763
		80.3	2.3	8.7	2.1	6.6			28.9
SANDUSKY @ UP SA	5.	227	10	27	6	22			291
		78.0	3.4	5.1	2.0	7.5			11.1
SANDUSKY @ BUC	6.	64	4	6	2	9			87
		73.3	4.9	9.4	2.1	10.2			3.3
TYNCHTEE @ CRAW	7.	109	3	17	5	11			225
		84.0	1.2	7.6	2.3	4.8			8.5
BROKEN SHD @ NEV	8.	67	1	7	1	3			80
		84.7	1.4	8.5	1.3	4.1			3.0
WOLF, WEST @ BET	9.	54	1	3	2	5			64
		83.3	1.4	4.7	3.1	7.6			2.4
WOLF, EAST @ FT S	10.	57	2	4	1	5			70
		81.9	2.7	6.3	2.0	7.0			2.6
MONEY CR @ MO	11.	147	1	15	1	11			179
		82.1	0.6	10.6	0.7	6.0			6.8
MONEY CR @ 231	12.	138	1	17	1	10			168
		82.5	0.5	10.2	0.5	6.3			6.4
MONEY CR @ HELM	13.	123	1	15	1	9			149
		82.6	0.6	10.6	0.5	6.3			5.6
MONEY CR UP SIL	14.	99	1	11	1	8			119
		82.8	0.6	5.6	0.5	6.5			4.5
COLUMN TOTAL		2120	49	257	40	171			2638
		83.4	1.9	9.7	1.5	6.5			100.0

(CONTINUED)

CCE LRIS CROSSSTABS UPDATE

FILE MFI CREATION DATE = 11/10/78) BUFFALO DIST., COE LAKE ERIE LRIS

***** C R U S T A B U L A T I O N U F *****
 BASIN SAMPLING STATION BASIN BY LU MAJOR LAND USE CATEGORIES PAGE 2 OF 3

	COUNT	LU	CROPLAND	PASTURE	FOREST	WATER	OTHER	RUM
	ROW	PCT						TOTAL
BASIN	15.	77	1.1	3.1	4.1	5.1	6.1	94
MONEY CR UP ALC	82.5	1	0.6	9.4	0.6	6.8	3.6	
16.	61	0	0	0	0	0	74	
MONEY CR UP ATT	82.8	0.4	8.4	0.7	7.7	2.8		
17.	23	0	0	2	0	1	26	
MONEY CR @ WELS	89.4	0.0	7.2	0.0	3.4	1.0		
18.	10	0	0	1	0	2	13	
MONEY CR MARSH	75.8	0.0	5.5	0.0	18.8	0.5		
19.	13	0	0	1	0	0	15	
MONEY CR MR WAYN	89.1	0.0	7.5	0.0	3.4	0.6		
20.	4	0	0	0	0	0	5	
M.C. TRIB DEL MO	87.8	0.0	10.2	0.0	2.0	0.2		
21.	5	0	0	0	0	0	5	
M.C. TRIB BUCKEY	92.0	0.0	8.0	0.0	0.0	0.2		
22.	20	0	0	3	0	1	23	
M.C. TRIB SILVER	83.8	0.0	12.0	0.0	4.3	2.9		
23.	13	0	0	2	0	0	16	
M.C. TRIB SILVER	86.5	0.0	10.3	0.0	3.2	0.6		
24.	10	0	0	1	0	0	11	
M.C. TRIB SILVER	87.7	0.0	5.6	0.0	2.6	0.4		
25.	13	0	0	1	0	1	16	
M.C. TRIB AICH	83.6	1.3	8.2	0.0	6.9	0.6		
COLUMN	2120	49	257	40	171	2638		
TOTAL	80.4	1.9	5.7	1.5	6.5	100.0		

(CENT INJED)

CDE LRIS CROSS TABS UPDATE

FILE #01 (CREATION DATE - 11/10/18) BUFFALO DIST., CUE LAKE ERIE LRIS

BASIN SAMPLING STATION BASIN C H U S T A B U L A T I O N U F MAJOR LAND USE CATEGORIES BY LU PAGE 3 OF 3

	COUNT	LU	CRUPLAND	PASTURE	FOREST	WATER	OTHER	ROW TOTAL
	ROW PCT		1.1	3.1	4.1	5.1	6.1	
BASIN								
26. M.C. TRIB BR RN	16	0	2	0	1	0	1	19
	84.5	0.5	8.6	1.0	5.2			0.7
27. M.C. TRIB @ SCUT	3	0	0	0	0	0	0	3
	93.5	0.0	6.5	0.0	0.0			0.1
28. P.C. TRIB ACKER	3	0	0	0	0	0	0	4
	89.7	0.0	7.1	0.0	2.6			3.1
29. ROCK CR EAST	9	0	1	0	0	0	0	11
	85.6	1.8	10.8	0.0	1.8			3.4
30. ROCK CR WEST	27	1	4	0	2	0	0	34
	79.4	2.4	12.1	1.2	5.0			1.3
32. MURCH TRIB NORM	3	0	0	0	0	0	0	5
	68.7	2.1	10.4	8.3	10.4			0.2
35. CATARAUGUS S B	30	5	28	1	5	0	0	68
	43.4	6.7	40.5	1.5	7.6			2.6
COLUMN TOTAL	2120	49	251	40	171			2638
	80.4	1.9	9.7	1.5	6.5			100.0

CHI SQUARE = 139.91707 WITH 112 DEGREES OF FREEDOM SIGNIFICANCE = 0.0362
CRAMER'S V = 0.11516

COOCCURRENCE TABLES

FILE C00U03 CREATION DATE = 02/16/79) BUFFALO DIST., COE LAKE ERIE LAND RESOURCE INFO SYSTEM

***** C P D S T A U L A T I C N O F *****
 BASIN SAMPLING STATION BASIN BY LU MAJCP LAND USE CATEGORIES
 ***** PAGE 1 OF 2 *****

	COUNT	LU	ICROPLANO	VINEYARD	PASTURE	FOREST	WATER	OTHER	MISSING	ROW
ROW PCT										TOTAL
	1	2	3	4	5	6	7	8	9	
BASIN	106	1	9	17	5	17	0	154		
BELLE R @ MEMPH	68.7	0.4	5.8	10.9	3.0	11.1	0.2	2.4		
BLACK R @ FARGO	369	0	18	27	10	50	1	475		
	77.7	0.1	3.8	5.6	2.1	10.5	0.2	7.3		
CLINTON R @ MT	196	4	174	52	25	280	32	763		
	25.6	0.5	22.9	6.8	3.3	36.7	4.2	11.7		
HURON R @ S MET	224	2	159	77	40	247	12	761		
	29.4	0.3	20.8	10.2	5.3	32.4	1.6	11.7		
MILL CR @ AVOCA	120	0	7	18	4	15	0	165		
	72.6	0.1	4.3	11.1	2.7	9.0	0.3	2.5		
RASIN R @ MON	681	1	69	91	31	138	4	1015		
	67.1	0.1	6.8	9.0	3.0	13.6	0.4	15.6		
ROUGE R @ W. JEF	39	2	106	26	6	291	11	480		
	8.1	0.3	22.1	5.5	1.3	60.6	2.2	7.4		
BLACK R @ ELY	223	0	72	71	4	25	15	410		
	54.4	0.1	17.6	17.3	0.9	6.1	3.6	6.3		
ROCKY @ BAREA	70	0	78	56	3	58	1	267		
	26.2	0.1	29.4	21.2	1.0	21.7	0.4	4.1		
CUYAHOGA @ IND	29	0	302	204	21	143	2	701		
	4.2	0.0	43.1	29.1	3.0	20.4	0.2	10.7		
EUCLEO CR	1	0	4	4	0	15	0	23		
	2.2	0.0	16.7	16.7	0.2	64.3	0.0	0.4		
BIG CR @ CLVD	0	0	8	3	0	27	0	38		
	0.0	0.0	20.3	6.5	0.1	71.1	0.0	0.6		
COLUMN TOTAL	2441	17	1235	1130	172	1451	78	6526		
	37.4	0.3	18.9	17.3	2.6	22.2	1.2	100.0		

(CONTINUED)

COOCCURRENCE TABLES

FILE C0C0R3 ICREATION DATE = 02/16/79) BUFFALO DIST., COE LAKE ERIE LAND RESOURCE INFO SYSTEM

***** C P D S S T A B U L A T I C N O F MAJOR LAND USE CATEGORIES *****
 BASIN SAMPLING STATION BASIN BY LU ***** PAGE 2 OF 2

COUNT ROW PCT	LU											ROW TOTAL	
	CROPLAND	VINEYARD	PASTURE	FOREST	WATER	OTHER	MISSING						
BASIN	1	2	3	4	5	6	7						
65	12	0	62	106	5	60	0						245
CHAGRIN @ MIL	4.9	0.0	25.4	43.1	2.0	24.5	0.0						3.8
66	244	5	136	249	14	57	0						704
GRAND @ PAIRN	34.6	0.7	19.2	35.4	2.0	8.1	0.0						10.8
69	57	0	20	46	1	12	0						137
ASHTABULA R	41.6	0.3	14.3	33.9	1.0	9.0	0.0						2.1
71	72	1	12	83	3	17	0						189
CONNEAUT CR	38.2	0.7	6.4	43.8	1.8	9.2	0.0						2.9
COLUMN	2441	17	1235	1130	172	1451	78						6526
TOTAL	37.4	0.3	18.9	17.3	2.6	22.2	1.2						100.0

COOCCURRENCE TABLES

FILE C0C0R3 (CREATION DATE = 02/16/79) BUFFALO DIST., COE LAKE ERIE LAND RESOURCE INFO SYSTEM

***** C R O S S T A B U L A T I O N O F *****
 BASIN SAMPLING STATION BASIN BY LU MAJOR LAND USE CATEGORIES *****
 ***** PAGE 1 OF 2 *****

	COUNT	LU	1	2	3	4	5	6	7	8	9	ROW TOTAL
BASIN	43	2	0	9	2	1	9	0	24			
SASHABAM CR @ CR	10.1	0.1	36.7	8.4	5.2	37.6	1.5	1.8				
49	7	0	3	1	0	2	0	14				
BLACK PLUM CR	51.0	0.5	23.2	10.5	0.0	14.7	0.0	1.0				
50	3	0	1	2	0	0	0	6				
BLACK NEFF CR	52.0	0.0	19.4	26.3	0.6	1.7	0.0	0.5				
53	19	0	167	108	19	77	1	392				
CUYAHOGA @ OLD	4.8	0.0	42.6	27.7	4.9	19.6	0.4	28.2				
54	24	0	222	141	20	87	1	496				
CUYAHOGA @ PENIN	4.8	0.0	44.8	28.5	4.0	17.6	0.3	35.7				
55	8	0	59	55	15	13	0	150				
CUYAHOGA @ HIRAM	5.2	0.0	39.3	36.5	10.3	8.7	0.0	10.8				
56	1	0	19	11	1	28	1	62				
LITTLE CUYAHOGA	2.1	0.0	30.9	17.3	2.4	45.8	1.5	4.4				
57	2	0	16	7	0	4	0	29				
MUD CR	5.5	0.0	56.3	23.1	0.5	14.6	0.0	2.1				
58	2	0	18	8	0	3	0	31				
YELLOW CREEK	7.9	0.0	58.8	24.6	0.5	8.3	0.0	2.2				
59	1	0	10	8	0	2	0	20				
FURNACE CR	2.7	0.0	48.1	41.1	0.0	8.1	0.0	1.4				
60	0	0	12	9	0	6	0	27				
BRANDYWINE CR	1.2	0.0	45.0	31.7	0.0	22.0	0.1	1.9				
61	0	0	4	6	0	7	0	18				
CHIPPENAW CR	2.0	0.0	21.2	35.3	0.0	41.5	0.0	1.3				
COLUMN TOTAL	76	0	593	386	60	270	4	1390				
TOTAL	5.5	0.0	42.7	27.8	4.3	19.5	0.3	100.0				

(CONTINUED)

COOCCURRENCE TABLES

FILE C0C0R3 (CREATION DATE = 02/16/79) BUFFALO DIST., COE LAKE ERIE LAND RESOURCE INFO SYSTEM

..... C P O S T A B U L A T I O N O F
 SAMPLING STATION BASIN BY LU MAJOR LAND USE CATEGORIES

PAGE 2 OF 2

	COUNT	LU	CROPLAND	VINEYARD	PASTURE	FOREST	W. TER	OTHER	MISSING	ROW
	ROW	PCT	1	2	3	4	5	6	7	TOTAL
BASIN	62	4	3.9	0.0	46.3	23.2	1.3	25.3	0.0	97
TIMKERS CR	67	11.0	0.0	0.0	47.1	33.8	6.6	0.7	0.7	7.0
MOSKINS CR	68	11.0	0.0	0.0	47.1	33.8	6.6	0.7	0.7	5
MONTVILLE D	70	7.9	0.2	0.0	21.9	19.7	1.5	48.9	0.0	0.4
HUBBARD RUN										5
COLUMN TOTAL			76	0	593	386	60	270	4	1390
			5.5	0.0	42.7	27.8	4.3	19.5	0.3	100.0

COOCCURRENCE TABLES

FILE MFI ICPEATION DATE = 11/07/78) BUFFALO DIST., CCE LAKE ERIE LRIS

***** C R O S S T A B U L A T I O N O F *****
 BASIN SAMPLING STATION BASIN BY KEAC INTRINSIC ERODABILITY *****
 ***** PAGE 1 OF 2 *****

		KFAC														ROW TOTAL	COL TOTAL	
		COUNT	0.10	0.15	0.17	0.20	0.24	0.28	0.32	0.37	0.43	0.49	0.51	0.53	0.55			
		ROW PCT	0.10	0.15	0.17	0.20	0.24	0.28	0.32	0.37	0.43	0.49	0.51	0.53	0.55			
		TOT PCT	0.10	0.15	0.17	0.20	0.24	0.28	0.32	0.37	0.43	0.49	0.51	0.53	0.55			
BASIN																		
1. MAUMEE @ WATERVI		75	4	149	74	925	1701	113	528	1717	10	10	10	10	5297			
		1.4	0.1	2.8	1.4	17.5	32.1	2.1	10.0	32.4	0.2	0.2	0.2	0.2	52.2			
		77.5	16.5	30.2	17.6	66.2	57.2	25.7	44.8	60.6	3.6	3.6	3.6	3.6				
		0.7	3.0	1.5	0.7	9.1	16.8	1.1	5.2	16.9	0.1	0.1	0.1	0.1				
2. PORTAGE @ WOODY		0	0	25	11	31	220	10	24	66	0	0	0	0	386			
		0.0	0.0	6.5	2.7	7.9	57.0	2.6	6.1	17.0	0.0	0.0	0.0	0.0	3.8			
		0.0	0.0	5.1	2.5	2.2	7.4	2.3	2.0	2.3	0.0	0.0	0.0	0.0				
		0.0	0.0	0.2	0.1	0.3	2.2	0.1	0.2	0.6	0.0	0.0	0.0	0.0				
3. SANDUSKY @ FHM		5	1	7	6	88	118	39	238	388	0	0	0	0	891			
		0.5	0.1	0.8	0.7	9.9	13.2	4.4	26.7	43.5	0.0	0.0	0.0	0.0	8.8			
		4.8	5.1	1.5	1.4	6.3	4.0	9.0	20.2	13.7	0.0	0.0	0.0	0.0				
		0.0	0.0	0.1	0.1	0.9	1.2	0.4	2.3	3.8	0.0	0.0	0.0	0.0				
31. MURON @ MILAN		7	0	7	0	16	26	74	73	145	9	9	9	9	358			
		2.0	0.0	2.0	0.1	4.6	7.2	20.6	20.5	40.7	2.4	2.4	2.4	2.4	3.5			
		7.2	0.2	1.4	0.0	1.2	0.9	16.8	6.2	5.1	3.0	3.0	3.0	3.0				
		0.1	0.0	0.1	0.0	0.2	0.3	0.7	0.7	1.4	0.1	0.1	0.1	0.1				
33. VERMILION NR VER		2	0	0	0	5	8	33	48	112	2	2	2	2	210			
		0.8	0.0	0.0	0.0	2.2	4.0	15.8	22.7	53.5	0.9	0.9	0.9	0.9	2.1			
		1.7	0.0	0.0	0.0	0.3	0.3	7.6	4.0	4.0	0.7	0.7	0.7	0.7				
		0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.5	1.1	0.0	0.0	0.0	0.0				
34. CATTARAUGUS @ GO		2	0	63	120	99	4	28	8	5	75	75	75	75	403			
		0.5	0.0	15.6	29.8	24.4	0.9	6.9	2.0	1.3	18.5	18.5	18.5	18.5	4.0			
		2.3	0.0	12.8	28.6	7.1	0.1	6.4	0.7	0.2	26.1	26.1	26.1	26.1				
		0.0	0.0	0.6	1.2	1.0	0.0	0.3	0.1	0.1	0.1	0.1	0.1	0.1				
36. DELAWARE NR ANGO		0	0	1	0	1	1	0	1	0	1	1	1	1	6			
		0.0	0.0	12.5	0.0	15.6	10.7	5.4	25.0	0.0	26.8	26.8	26.8	26.8	0.1			
		0.0	0.2	0.1	0.0	0.1	0.0	0.1	0.1	0.0	0.5	0.5	0.5	0.5				
		0.0	0.0	3.0	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
COLUMN TOTAL		97	25	492	421	1397	2972	439	1180	2834	285	285	285	285	10144			
TOTAL		1.0	0.3	4.9	4.2	13.8	29.3	4.3	11.6	27.9	2.8	2.8	2.8	2.8	100.0			

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(CONTINUED)

COOCCURRENCE TABLES

FILE MF1 (CREATION DATE = 11/07/78) BUFFALO DIST., CDE LAKE ERIE LAIS

***** C R O S S T A B U L A T I O N O F *****
 BASIN SAMPLING STATION BASIN BY KEAC INTRINSIC ERODABILITY *****
 ***** PAGE 2 OF 2 *****

REAC													
COUNT	0.10	0.15	0.17	0.20	0.24	0.28	0.32	0.37	0.43	0.49	ROW		
ROW PCT	0.10	0.15	0.17	0.20	0.24	0.28	0.32	0.37	0.43	0.49	TOTAL		
COL PCT	0.10	0.15	0.17	0.20	0.24	0.28	0.32	0.37	0.43	0.49	TOTAL		
TOT PCT	0.10	0.15	0.17	0.20	0.24	0.28	0.32	0.37	0.43	0.49	TOTAL		
BASIN													
37.	0	0	2	11	3	4	2	6	0	5	34		
18 MILE CR MR B	0.3	0.0	6.5	33.1	9.1	10.9	7.3	16.7	1.2	15.0	0.3		
	0.1	0.0	0.4	2.7	0.2	0.1	0.6	0.5	0.0	1.8			
	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.1			
RACON CR @ N SP													
38.	0	0	0	0	1	0	0	0	2	0	3		
	0.0	0.0	3.0	0.0	18.2	0.0	12.1	0.0	57.6	9.1	0.0		
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1			
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
MILL CR @ ERIE													
39.	0	0	0	0	2	1	0	4	1	0	8		
	0.0	0.0	1.2	6.2	22.2	8.6	3.7	44.4	12.3	1.2	0.1		
	0.0	0.0	0.0	0.1	0.1	0.0	0.1	0.3	0.0	0.0			
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
DIRECT DRAINAGE													
80.	6	20	238	198	227	890	138	250	396	183	2547		
	0.2	0.8	9.4	7.8	8.9	35.0	5.4	9.8	15.6	7.2	25.1		
	6.4	78.3	48.4	47.0	16.2	30.0	31.4	21.2	14.0	64.1			
	0.1	0.2	2.3	2.0	2.2	8.8	1.4	2.5	3.9	1.8			
COLUMA													
97	25	492	421	1397	2972	439	1180	2834	285	10144	10144		
TOTAL	1.0	0.3	4.9	4.2	13.6	29.3	4.3	11.6	27.9	2.8	100.0		

CHI SQUARE = 3778.83911 WITH 90 DEGREES OF FREEDOM SIGNIFICANCE = 0.0000
 CRAMER'S V = 0.20345

NUMBER OF MISSING OBSERVATIONS = 1721

COE LRIS CROSSSTABS UPDATE

FILE MF1 (CREATION DATE = 11/16/78) BUFFALO DIST., CUE LAKE ERIE LRIS

***** C R G S S T A B U L A T I O N C F *****
 BASIN SAMPLING STATION BASIN BY MFAC INTRINSIC ERODABILITY *****
 ***** PAGE 1 OF 3 *****

	COUNT	MFAC	0.10	0.15	0.17	0.20	0.24	0.28	0.32	0.37	0.43	0.49	ROW
	ROW PCT	FC.10											TOTAL
BASIN													
4. SANCUSKY @ MEX		1	1	1	2	81	48	25	127	226	0	513	
		0.3	0.3	0.3	0.4	15.8	9.5	4.9	24.7	44.0	0.0	23.8	
5. SANCUSKY @ UP SA		0	0	0	2	32	20	19	67	94	0	235	
		0.1	0.1	0.1	0.8	13.7	8.7	8.0	28.6	39.9	0.0	10.9	
6. SANCUSKY @ BUC		0	0	0	1	10	4	6	29	28	0	80	
		0.0	0.0	0.0	0.8	12.3	5.6	10.5	35.8	35.0	0.0	3.7	
7. TYPCCHTEE @ CRAN		0	1	1	0	29	17	1	15	54	0	121	
		0.2	0.5	0.4	0.0	23.6	13.7	0.9	12.0	48.6	0.0	5.6	
8. BRCKEN SMD @ MEV		0	0	0	0	6	6	5	25	30	0	74	
		0.0	0.0	0.1	0.7	8.3	8.0	7.0	34.6	41.3	0.0	3.4	
9. WOLF, WEST @ BET		0	0	0	0	1	26	1	10	20	0	57	
		0.0	0.0	0.2	0.2	1.6	44.7	1.9	16.7	34.8	0.0	2.7	
10. WOLF, EAST @ FT S		0	0	0	0	1	7	1	10	27	0	45	
		0.0	0.0	0.4	0.2	1.1	15.1	1.6	21.7	59.9	0.0	2.1	
11. MONEY CR @ MO		3	0	0	0	3	16	8	82	62	0	176	
		1.9	0.0	0.2	0.2	1.8	9.1	4.8	46.8	35.3	0.0	8.2	
12. MONEY CR @ 231		3	0	0	0	3	15	7	81	55	0	143	
		2.0	0.0	0.2	0.2	1.8	9.0	4.5	49.1	33.3	0.0	7.6	
13. MONEY CR @ MELM		3	0	0	0	3	13	6	74	46	0	146	
		2.3	0.0	0.2	0.2	1.9	9.1	4.0	50.8	31.6	0.0	6.8	
14. MONEY CR UP SIL		3	0	0	0	3	12	5	57	36	0	117	
		2.7	0.0	0.2	0.3	2.4	10.7	3.9	48.8	31.1	0.0	5.4	
COLUMN TOTAL		25	2	11	37	193	224	107	722	828	11	2137	
TOTAL		1.2	0.1	0.5	1.7	8.9	10.4	4.9	33.5	36.3	0.5	100.0	

CONTINUED

(CONTINUED)

CCE LRIS LRCSTABS UPDATE

FILE MFI (CREATION DATE = 11/10/78) BUFFALO DIST., LUE LAKE ENIE LRIS

***** C H O S S T A B U L A T I O N U F *****
 BASIN SAMPLING STATION BASIN BY MFAC INTRINSIC ERGACILITY
 ***** PAGE 2 OF 3

	COUNT	MFAC	0.10	0.15	0.17	0.20	0.24	0.28	0.32	0.37	0.43	0.49	ROW
	ROW	PCT											TOTAL
BASIN	15.		3	0	0	0	3	11	4	39	32	0	92
HONEY CR UP AIC	3.5	0.0	0.0	0.0	0.0	0.3	2.9	11.9	4.5	41.9	35.0	0.0	4.3
HONEY CR UP ATT	3	0	0	0	0	0	3	10	3	29	23	0	72
	4.4	0.0	0.0	0.4	0.0	0.4	3.6	14.4	4.7	40.0	32.5	0.0	3.4
HONEY CR 2 WEIS	0	0	0	0	0	0	1	5	2	8	9	0	25
	0.4	0.0	0.0	0.8	0.0	0.3	4.3	19.4	7.1	32.0	36.0	0.0	1.2
HONEY CR MARSH	3	0	0	0	0	0	1	2	1	2	4	0	13
	24.4	0.0	0.0	0.0	0.0	0.0	6.3	14.2	7.1	16.5	31.5	0.0	0.6
HONEY CR NR WAYN	0	0	0	0	0	0	1	3	1	5	4	0	14
	0.0	0.0	0.0	1.4	0.0	0.0	4.2	22.9	10.4	33.3	27.8	0.0	0.7
M.C. TRIB DEL MU	0	0	0	0	0	0	0	0	0	1	4	0	5
	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	8.2	16.3	13.5	0.0	0.2
M.C. TRIB BUCKEY	0	0	0	0	0	0	0	0	0	0	2	0	5
	0.0	0.0	0.0	0.0	0.0	0.0	2.1	0.0	0.0	58.3	39.6	0.0	0.2
M.C. TRIB SILVER	0	0	0	0	0	0	0	1	0	14	7	0	23
	0.4	0.0	0.9	0.0	0.0	0.4	0.4	2.6	1.7	62.8	31.2	0.0	1.1
M.C. TRIB SILVER	0	0	0	0	0	0	0	0	0	8	6	0	15
	0.0	0.0	0.0	0.0	0.0	0.6	0.6	2.6	0.6	53.5	41.9	0.0	0.7
M.C. TRIB SILVER	0	0	0	0	0	0	0	0	0	5	6	0	11
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	0.9	42.5	53.1	0.0	0.5
M.C. TRIB AICH	0	0	0	0	0	0	0	1	0	15	0	0	16
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	0.0	94.2	1.9	0.0	0.7
COLUMN TOTAL	25	2	11	37	11	193	224	107	107	722	825	11	2157
TOTAL	1.2	0.1	0.5	1.7	0.9	8.9	10.4	4.9	33.5	38.3	0.5	100.0	

(CONTINUED)

CCE LUIS CRUSSTABS UPDATE

FILE MF1 (CREATION DATE = 11/10/78) BUFFALO DIST., COE LAKE ERIE LUIS

***** CRUSSTABULATION OF *****
 BASIN SAMPLING STATION BASIN BY KFAC INTRINSIC ERCCABILITY *****
 ***** PAGE 3 OF 3 *****

COUNT RGM PCT	KFAC											RGM TOTAL
	C.10	0.15	C.17	0.20	0.24	0.28	0.32	0.37	0.43	0.49		
BASIN	0.101	0.151	C.171	0.201	0.241	0.281	0.321	0.371	0.431	0.491		
26. M.C. TRIB BR KN	0	0	C	0	0	2	0	10	6	0	19	
	0.0	0.0	0.0	0.5	1.6	10.5	0.0	55.0	32.5	0.0	0.9	
27. M.C. TRIB @ SCOT	0	0	C	0	0	0	C	1	1	0	3	
	0.0	0.0	0.0	0.0	16.1	3.2	6.5	25.0	45.2	0.0	0.1	
28. M.C. TRIB ACKER	0	0	C	0	0	1	1	1	0	0	4	
	0.0	0.0	0.0	0.0	0.0	38.5	20.5	30.8	10.3	0.0	0.2	
29. ROCK CR EAST	0	0	0	0	0	0	0	1	10	0	11	
	0.0	0.0	C.C	0.0	0.0	3.6	1.8	8.1	86.5	0.0	0.5	
30. ROCK CR WEST	0	0	C	0	0	1	1	3	22	0	28	
	0.0	0.0	0.0	0.0	0.0	5.0	4.6	10.0	80.4	0.0	1.3	
32. MURCN TRIB MORN	0	0	C	0	0	0	0	1	3	0	5	
	0.0	0.0	6.5	0.0	6.5	0.0	10.9	13.0	58.7	4.3	0.2	
35. CATTARAUGUS S B	0	0	1	30	13	1	4	0	0	10	64	
	0.5	0.0	19.2	46.0	19.8	0.9	6.2	0.0	0.2	16.1	3.0	
COLUMN TOTAL	25	2	11	37	193	224	107	722	825	11	2157	
RGM TOTAL	1.2	0.1	0.5	1.7	8.9	10.4	4.9	33.5	38.3	0.5	100.0	

CHI SQUARE = 1768.64089 WITH 252 DEGREES OF FREEDOM SIGNIFICANCE = 0.0000
 CRAMER'S V = 0.30182

NUMBER OF MISSING OBSERVATIONS = 48C

COOCCURRENCE TABLES

FILE C00033 CREATION DATE = 02/16/79) BUFFALO DIST., COE LAKE ERIE LAND RESOURCE INFO SYSTEM

***** C O O C C U R R E N C E T A B L E *****
 BASIN SAMPLING STATION BASIN BY KFAC INTRINSIC PROBABILITY
 ***** PAGE 1 OF 4

COUNT ROW PCT MISSING	KFAC														ROW TOTAL
	0	1	10	15	17	20	24	28	32	37	43	43	43	43	
BASIN	0	1	10	15	17	20	24	28	32	37	43	43	43	43	154
BELLE R @ MEAD	8	12	12	0	12	12	20	37	6	12	35	35	35	35	2.4
	5.0	7.7	0.3	0.3	8.0	7.6	13.2	23.8	3.9	7.7	22.9	22.9	22.9	22.9	475
BLACK R @ FARGO	14	45	11	11	43	43	12	155	120	2	31	31	31	31	7.3
	3.0	9.5	2.2	2.2	9.0	9.0	2.6	32.5	25.2	0.5	6.4	6.4	6.4	6.4	763
CLINTON R @ MT	412	10	50	50	32	50	50	109	10	23	19	19	19	19	11.7
	54.0	1.3	6.5	6.5	4.1	6.5	6.6	14.3	1.3	3.0	2.4	2.4	2.4	2.4	761
MURON R @ S MET	267	78	5	5	93	40	86	44	5	110	33	33	33	33	11.7
	35.1	10.2	0.7	0.7	12.2	5.3	11.3	5.8	0.7	14.5	4.3	4.3	4.3	4.3	165
MILL CR @ AVOCA	6	16	1	1	13	11	12	39	22	3	41	41	41	41	2.5
	3.8	9.8	0.4	0.4	8.2	6.5	7.4	23.9	13.3	2.0	24.8	24.8	24.8	24.8	1013
RASIN R @ NR MDN	167	43	0	0	52	84	144	206	12	61	245	245	245	245	15.6
	16.5	4.2	0.0	0.0	5.2	8.2	14.2	20.3	1.2	6.0	24.2	24.2	24.2	24.2	480
ROUGE R @ W. JEF	313	2	8	8	46	34	16	11	6	15	30	30	30	30	7.4
	65.1	0.3	1.6	1.6	9.5	7.2	3.3	2.2	1.3	3.0	6.2	6.2	6.2	6.2	410
BLACK R @ ELY	70	1	0	0	0	0	1	4	29	71	232	232	232	232	6.3
	17.0	0.3	0.0	0.0	0.0	0.1	0.3	1.0	7.0	17.3	56.7	56.7	56.7	56.7	267
ROCKY @ BAREA	56	1	1	1	0	0	1	3	16	32	158	158	158	158	4.1
	21.0	0.2	0.2	0.2	0.1	0.0	0.4	1.0	5.9	11.9	59.1	59.1	59.1	59.1	701
CUYAHOGA @ IND	250	14	3	3	1	0	19	15	83	120	183	183	183	183	10.7
	35.6	2.0	0.4	0.4	0.1	0.0	2.7	2.2	11.9	17.1	26.1	26.1	26.1	26.1	23
EUCLID CR	13	0	0	0	0	0	0	0	5	2	3	3	3	3	0.4
	54.3	0.0	1.1	1.1	0.0	0.0	0.0	0.0	23.1	7.0	14.5	14.5	14.5	14.5	36
BIG CR @ CLVD	28	0	0	0	0	0	0	0	1	1	7	7	7	7	0.6
	75.6	0.0	0.1	0.1	0.0	0.0	0.0	0.1	2.9	2.0	19.3	19.3	19.3	19.3	6526
COLUMN TOTAL	1938	222	85	85	307	276	394	657	354	800	1425	1425	1425	1425	100.0
TOTAL	29.7	3.4	1.3	1.3	4.7	4.2	6.0	10.1	5.4	12.3	21.8	21.8	21.8	21.8	

(CONTINUED)

COOCCURRENCE TABLES

FILE C0C0R3 (CREATION DATE = 02/16/79) BUFFALO DIST. - CCE LAKE ERIE LAND RESOURCE INFO SYSTEM
 BASIN CROSS TABULATION OF INTRINSIC ERODIBILITY BY KFAC PAGE 2 OF 4

	COUNT	KFAC	
	ROM PCT	10.49	ROM TOTAL
BASIN	49	1	
BELLE R @ MEMPH	40	0	154
		0.0	2.4
BLACK R @ FARGO	41	0	475
		0.0	7.3
CLINTON R @ MT	42	0	763
		0.0	11.7
MURROW R @ S MET	44	0	761
		0.0	12.7
MILL CR @ AVOCA	45	0	165
		0.0	2.5
NASIN R @ MON	48	0	1015
		0.0	15.6
ROUGE R @ W. JEF	47	0	480
		0.0	7.4
BLACK R @ ELY	48	1	410
		0.4	6.3
ROCKY @ BERA	51	1	267
		0.2	4.1
CUYAHOGA @ IND	52	13	701
		1.0	10.7
EUCLIO CR	63	0	23
		0.0	0.4
BIG CR @ CLVO	84	0	34
		0.0	0.6
COLUMN TOTAL	68	68	6526
		1.0	100.0

(CONTINUED)

COCURRENCE TABLES

FILE C0CUM3 CREATION DATE = 07/16/791 BUFFALO DIST., CUE LAKE ERIE LAND RESOURCE INFO SYSTEM

***** C R O S S T A B U L A T I O N O F *****
 BASIN SAMPLING STATION BASIN BY KEAC INTRINSIC ERODABILITY ***** PAGE 3 OF 4

		KFAC												RGM	
COUNT	MISSING	0.10	0.15	0.17	0.20	0.24	0.28	0.32	0.37	0.43					TOTAL
ROW PCT															
BASIN	0	10	15	17	20	24	28	32	37	43					245
	32	1	5	1	1	5	3	15	25	156					3.8
CPAGREN 2 WIL	13.1	0.2	1.5	0.6	0.5	2.2	1.1	5.9	10.1	63.5					704
	286	0	1	6	1	11	16	4	190	160					10.8
GRAND 2 PAIN	40.6	0.1	0.1	0.9	0.1	1.5	2.2	0.6	27.0	22.8					137
	7	0	0	2	0	4	8	4	65	46					2.1
ASHTABULA R	5.0	0.0	0.0	1.2	0.0	3.2	5.5	3.2	47.3	33.4					189
	11	0	0	5	1	11	10	15	70	45					2.9
CCMNEAUT CR	5.6	0.0	0.0	2.8	0.5	5.8	5.4	8.2	37.0	23.9					6526
COLUMN	1938	222	85	307	276	394	657	354	800	1425					100.0
TOTAL	29.7	3.4	1.3	4.7	4.2	6.0	10.1	5.4	12.3	21.8					

(CONTINUED)

COOCCURRENCE TABLES

FILE C0C0R3 (CREATION DATE = 02/16/79) BUFFALO DIST. CCE LAKE ERIE LAND RESOURCE INFO SYSTEM
 BASIN C P J S S T A B U L A T I C N O F INTRINSIC ERODABILITY
 SAMPLING STATION BASIN BY KFAC

PAGE 4 OF 4

	COUNT	KFAC	ROW	TOTAL
	ROW PCT	10.40		
BASIN		49		
CHAGRIN & MIL	65	2	245	
		0.8	3.8	
GRAND & PAIN	66	29	704	
		4.2	10.8	
ASHTABULA R	69	2	137	
		1.2	2.1	
CCMNEAUT CR	71	20	189	
		10.8	2.9	
COLUMN TOTAL		68	6526	
		1.0	100.0	

COOCCURENCE TABLES

FILE C0C0R3 (CREATION DATE = 02/16/79) BUFFALO DIST., C7E LAKE ERIE LAND RESOURCE INFO SYSTEM

***** C R O S S T A B U L A T I O N O F *****
 BASIN SAMPLING STATION BASIN BY KFAC INTRINSIC PROBABILITY *****
 ***** PAGE 1 OF 2

	COUNT	0.10	0.15	0.17	0.24	0.28	0.32	0.37	0.43	0.49	ROW TOTAL
	ROW PCT MISSING	0.10	0.15	0.17	0.24	0.28	0.32	0.37	0.43	0.49	ROW TOTAL
BASIN	0	10	15	17	24	28	32	37	43	49	
SASHABAW CR & DR	24	0	0	0	0	0	0	0	0	0	24
	99.5	0.0	0.0	0.3	0.3	0.0	0.0	0.0	0.0	0.0	1.8
BLACK PLUM CR	3	0	0	0	0	0	1	3	7	0	14
	20.3	0.3	0.0	0.0	0.0	0.8	4.7	20.0	53.9	0.0	1.0
BLACK NEFF CR	0	0	0	0	0	0	0	1	5	0	6
	6.9	0.0	0.0	0.0	0.0	0.0	1.1	8.0	84.0	0.0	0.5
CUYAHOGA & OLD	178	10	0	1	11	6	61	89	34	3	392
	45.4	2.5	0.1	0.1	2.9	1.5	15.5	22.6	8.6	0.8	28.2
CUYAHOGA & PENIN	197	12	1	1	14	9	70	101	87	5	496
	39.7	2.3	0.2	0.1	2.8	1.8	14.1	20.3	17.6	1.0	35.7
CUYAHOGA & HIRSH	108	1	0	0	1	1	6	19	13	0	150
	72.2	0.4	0.0	0.0	0.5	0.9	4.1	12.8	9.0	0.1	10.8
LITTLE CUYAHOGA	32	2	0	0	3	0	11	13	0	0	62
	52.7	2.9	0.1	0.0	4.7	0.5	17.8	20.8	0.0	0.5	4.4
MUD CR	5	1	0	0	1	0	4	2	15	2	29
	16.1	4.4	0.1	0.0	2.0	1.2	12.2	7.6	50.8	5.6	2.1
YELLOW CREEK	3	0	0	0	1	1	4	7	15	0	31
	10.7	1.3	0.6	0.0	4.0	2.2	13.1	21.0	46.9	0.2	2.2
FURNACE CR	2	0	1	0	0	0	0	1	15	0	20
	10.2	0.0	2.9	0.0	0.4	1.3	2.2	6.1	77.1	0.0	1.4
BRANDYWINE CR	4	0	0	0	0	1	2	4	15	1	27
	16.4	0.7	0.0	0.0	1.5	2.4	7.7	15.1	53.6	2.7	1.9
CHIPPEWA CR	3	0	1	0	0	0	1	1	13	0	18
	18.5	0.0	3.2	0.0	0.2	0.4	3.4	2.8	71.2	0.2	1.3
COLUMN TOTAL	600	27	4	2	35	21	165	250	268	18	1390
	43.2	1.9	0.3	0.2	2.5	1.5	11.9	18.0	19.3	1.3	100.0

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      TITLE C00C108 } (CREATION DATE = 02/16/70)  BUFFALO DIST.,CNF LAKE ERIE LAND PFSOURCE INFO SYSTEM

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FILE COCURE (CREATION DATE = 02/16/70)

***** CROSS TABULATION OF INTRINSIC ERODABILITY *****
***** BASIN SAMPLING STATION BASIN *****

COUNT ROW	KFAC																	TOTAL	
	MISSING	0.10	0.15	0.17	0.24	0.28	0.32	0.37	0.43	0.49									
BASIN	0	1	10	1	15	1	17	1	24	1	28	1	32	1	37	1	43	1	49
TINKERS CR	62	27	1	1	1	0	0	0	2	2	2	5	5	8	8	45	45	7	97
		27.7	1.3	0.8	0.6	0.0	0.0	0.0	1.7	2.0	2.0	4.7	4.7	7.8	7.8	46.9	46.9	7.0	7.0
WOSKINS CR	67	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
		100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
MONTVILLE D	68	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
		100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
HUBBARD RUN	70	3	0	0	0	1	7.4	1	2	1	4.2	1	1	3	3	3	3	0	15
		18.7	0.0	0.0	0.0	12.5	7.4	4.2	2	1	4.2	9.6	9.6	23.1	23.1	23.6	1.0	1.1	1.1
COLUMN TOTAL	600	27	4	2	35	21	165	250	268	18	1390								
	43.2	1.9	0.3	0.2	2.5	1.5	11.9	18.0	19.3	1.3	100.0								

COOCCURRENCE TABLES

FILE PFI (CREATION DATE = 11/07/78) BUFFALO DIST., COE LAKE ERIE LRIES

***** C O U N T Y S T A B U L A T I O N O F *****
 BASIN SAMPLING STATION RASIA BY DRCO DRAINAGE CHARACTERISTICS CODE
 ***** PAGE 1 OF 2 *****

BASIN	COUNT		DRCO		SOMEPOOR		MUD. WELL		SOMEEXCE		EXCESVLY		ROM TOTAL
	COL PCT	EVERYPOOR	POORLY	DRAINED	DRAINED	CRAINED	DRAINED	DRAINED	DRAINED	DRAINED	DRAINED	DRAINED	
	TOT PCT	1.1	2.1	3.1	4.1	5.1	6.1	7.1					
MAUMEE @ WATERVI	1.	2581	99	1748	493	370	4	4					5299
		48.7	1.9	33.0	9.3	7.3	0.1	0.1					52.2
	2.	61.2	26.2	49.4	60.9	46.3	58.0	81.8					
PORTAGE @ WOODV	1.	25.4	1.0	17.2	4.9	3.6	0.3	0.0					
		267	1	89	18	11	0	0					386
	2.	69.2	0.3	23.1	4.6	2.8	0.0	0.0					3.8
SANDUSKY @ FRM	1.	6.3	0.3	2.5	1.5	1.4	0.0	0.0					
		2.6	0.0	0.9	0.2	0.1	0.0	0.0					
	3.	192	71	469	128	31	0	0					892
MURON @ MILAN	1.	21.6	7.9	52.6	14.3	3.5	0.0	0.0					8.8
		4.6	18.8	13.3	10.6	3.9	0.0	0.0					
	2.	1.9	0.7	4.6	1.3	0.3	0.0	0.0					
VERMILTON NR VER	1.	63	31	165	63	36	0	0					359
		17.6	8.5	46.0	17.6	10.2	0.1	0.0					3.5
	2.	1.5	0.3	4.7	5.2	4.6	7.2	0.0					
CATARAUGUS @ GO	1.	0.6	0.3	1.6	0.6	0.4	0.0	0.0					210
		22	21	117	31	19	0	0					2.1
	2.	10.3	9.9	55.7	14.9	9.2	0.0	0.0					
DELAWARE NR ANGO	1.	0.5	5.5	3.3	2.6	2.4	0.0	0.0					403
		0.2	0.2	1.2	0.3	0.2	0.0	0.0					4.0
	2.	14	10	138	142	99	0	0					
TOTAL	1.	3.6	2.5	34.2	35.3	24.5	0.0	0.0					6
		0.3	2.6	3.9	11.8	12.3	0.0	0.0					0.1
	2.	0.1	0.1	1.4	1.4	1.3	0.0	0.0					
TOTAL	1.	0	0	3	1	1	0	0					
		1.8	0.0	62.5	19.6	14.3	1.8	0.0					
	2.	0.0	0.0	0.1	0.1	0.1	1.4	0.0					
TOTAL	1.	0.3	0.3	0.0	0.0	0.0	3.0	0.0					
		4216	377	3539	1205	800	7	4					10148
	2.	41.5	3.7	34.0	11.9	7.9	0.1	0.0					100.0

(CONTINUED)

COCURRENCE TABLES

FILE MFI (CREATION DATE = 11/07/78) BUFFALO DIST., COE LAKE EPIC LRIS

***** C R O S S T A B U L A T I O N O F *****
 BASIN SAMPLING STATION BASIN BY CRCD DRAINAGE CHARACTERISTICS CODE *****
 ***** PAGE 2 OF 2 *****

CPCO											
COUNT	ROW PCT	EVERYPOOR	POORLY	SOMEPOOR	MOD. WELL	WELL	SOMEEXCE	EXCESVLY	DRAINED	DRAINED	ROW TOTAL
COL PCT	1.1	2.1	3.1	4.1	5.1	6.1	7.1	8.1	9.1	10.1	
TOT PCT	1.1	2.1	3.1	4.1	5.1	6.1	7.1	8.1	9.1	10.1	
BASIN	37.	0	11	18	4	0	0	0	0	34	
19 MILE CR NR B	0.6	1.5	32.6	54.0	11.4	0.0	0.0	0.0	0.0	0.3	
	0.0	0.1	0.3	1.5	0.5	0.0	0.0	0.0	0.0		
	0.0	0.0	0.1	0.2	0.0	0.0	0.0	0.0	0.0		
RACON CR @ W SP	38.	0	2	0	1	0	0	0	0	3	
	18.2	3.0	51.5	6.1	21.2	3.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0		
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
MILL CR @ ERTE	39.	0	4	1	2	0	0	0	0	8	
	9.9	6.2	50.6	11.1	22.2	3.0	0.0	0.0	0.0	0.1	
	0.0	0.1	0.1	0.1	0.2	0.0	0.0	0.0	0.0		
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
DIRECT DRAINAGE	80.	1074	144	792	309	226	2	1	0	2548	
	42.2	5.6	31.1	12.1	8.9	0.1	0.0	0.0	0.0	25.1	
	25.5	38.1	22.4	25.6	28.2	33.3	18.2	0.0	0.0		
	10.6	1.4	7.8	3.0	2.2	0.0	0.0	0.0	0.0		
COLUMN TOTAL	4216	377	3539	1205	800	7	4	0	0	10148	
	41.5	3.7	34.9	11.9	7.9	0.1	0.0	0.0	0.0	100.0	

NUMBER OF MISSING OBSERVATIONS = 1717

CCE LRIS CRCSSTABS UPDATE

FILE MFI (CREATION DATE = 11/10/78) BUFFALO DIST., COE LAKE ERIE LRIS

***** C R O S S T A B U L A T I O N U F *****
 BASIN SAMPLING STATION HASIN BY DRCC DRAINAGE CHARACTERISTICS CODE
 ***** PAGE 1 OF 3 *****

CRCC

COUNT ROW PCT	VERY POOR DRAINED	POORLY DRAINED	SCHEPDR DRAINED	MOD. WELL DRAINED	WELL DRAINED	ROW TOTAL
	1.1	2.1	3.1	4.1	5.1	
BASIN						
4. SANDUSKY @ MEX	121	29	24.5	100	18	514
	23.7	5.7	47.7	19.5	3.5	23.8
5. SANDUSKY @ UP SA	49	14	105	53	10	235
	20.8	6.0	46.5	22.5	4.2	10.9
6. SANDUSKY @ BUC	13	5	40	18	3	80
	16.6	6.6	49.5	22.7	4.1	3.7
7. TYMCHEE @ CRAM	46	2	55	14	1	121
	37.6	1.9	48.2	11.4	0.8	5.6
8. BROKEN SMO @ NEV	11	6	38	15	3	74
	14.7	8.4	51.7	20.4	4.7	3.4
9. WOLF, WEST @ BET	25	8	22	0	2	57
	43.5	13.2	39.2	0.5	3.0	2.7
10. WOLF, EAST @ FT S	7	8	25	0	0	45
	15.7	16.9	65.4	0.9	1.1	2.1
11. MONEY CR @ MO	18	23	113	16	6	176
	10.3	12.8	64.4	8.8	3.6	8.2
12. MONEY CR @ 231	18	22	102	14	5	165
	10.7	13.3	64.2	8.4	3.3	7.6
13. MONEY CR @ MELM	17	20	54	11	4	147
	11.7	13.8	64.4	7.6	2.5	6.8
14. MONEY CR @ UP SIL	16	17	73	9	2	118
	13.9	14.5	62.4	7.3	1.9	5.4
COLUMN TOTAL	394	206	1176	312	72	2161
100.3	9.5	54.4	14.5	3.3		100.0

(CONTINUED)

CDE LRIS CROSSTABS UPDATE

FILE NF1 ICREATION DATE = 11/10/78) BUFFALO DIST., COE LAKE ERIE LRIS

***** C R G S T A B U L A T I O N O F *****
 BASIN SAMPLING STATION BASIN ***** DRAINAGE CHARACTERISTICS CODE *****
 ***** PAGE 2 OF 3 *****

	COUNT ROW PCT	IRCO		SCHEPCCR MUD. WELL	WELL	DRAINED	DRAINED	RUM TOTAL
		VERYPOOR DRAINED	POORLY DRAINED	CR	CR	CR	CR	
BASIN		1.1	2.1	3.1	4.1	5.1		
15. HONEY CR UP AIC	15	13	14.1	56	8	1	53	4.3
16. HONEY CR UP ATT	15	11	15.3	35	7	0	73	3.4
17. HONEY CR & WEIS	5	4	12	4	0	0	25	1.2
18. HONEY CR MARSH	6	1	5	1	0	0	13	0.6
19. HONEY CR MR WAYN	3	2	6	2	0	0	15	0.7
20. M.C. TRIB BEL MO	0	1	4	0	0	0	5	0.2
21. M.C. TRIB BUCKEY	0	1	2	1	0	0	5	0.2
22. M.C. TRIB SILVER	0	3	16	1	1	1	23	1.1
23. M.C. TRIB SILVER	0	2	12	1	0	0	15	0.7
24. M.C. TRIB SILVER	0	1	6	1	0	0	11	0.5
25. M.C. TRIB AICH	0	4	11	0	0	0	16	0.7
COLUMN TOTAL	396	206	1176	312	72	2161	100.0	
TOTAL	18.3	9.5	54.4	14.5	3.3			

(CONTINUED)

COE LRS CROSSTABS UPDATE

FILE MFI (CREATION DATE = 11/10/78) BUFFALO DIST. COE LAKE ERIE LRS
 BASIN SAMPLING STATION BASIN C P C S T A B U L A T I O N C F DRAINAGE CHARACTERISTICS CODE
 PAGE 3 OF 3

CRCO

COUNT FROM PCT	VERY POOR DRAINED	POORLY DRAINED	SCREPPER DRAINED	MUD-WELL DRAINED	RUN TOTAL
	1.1	2.1	3.1	4.1	5.1
BASIN					
26.	1	3	13	1	19
H.C. TRIB BR KN	7.9	18.3	62.5	7.3	0.9
27.	1	0	2	0	3
H.C. TRIB 3 SCOT	25.8	6.5	51.6	16.1	0.3
28.	1	1	2	0	4
H.C. TRIB ACRER	30.8	28.2	41.0	0.0	0.2
29.	0	1	5	1	11
ROCK CR EAST	0.9	5.4	84.7	6.3	0.5
30.	0	1	21	4	28
ROCK CR WEST	1.1	5.0	75.4	14.3	1.3
32.	0	0	3	0	5
MURON TRIB MORN	4.3	0.0	71.7	6.5	0.2
35.	2	2	20	28	64
CATTARAUGUS S B	2.8	3.3	31.6	44.0	3.0
COLUMN TOTAL	394	206	1176	312	2161
	18.3	9.5	54.4	14.5	100.0

CHI SQUARE = 357.56274 WITH 112 DEGREES OF FREEDOM SIGNIFICANCE = 0.0000
 CRAMER'S V = 0.20340

NUMBER OF MISSING OBSERVATIONS = 477

COOCCURRENCE TABLES

FILE C0C0R3 (CREATION DATE = 02/16/79) BUFFALO DIST., CODE LAKE ERIE LAND RESOURCE INFO SYSTEM

***** C P J S S T A H U L A T I O N O F *****
 BASIN SAMPLING STATION PASTA ***** BY CRCO ***** DRAINAGE CHARACTERISTICS CODE *****
 ***** PAGE 1 OF 2 *****

COUNT ROW PCT	MISSING	VERY POOR			POORLY			SOME POOR			MOD. WELL			SOME EXCE			EXCESSVLY			ROW TOTAL
		0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
BASIN	40	8	49	0	58	13	23	0	3	154										154
BELLE R @ MEMPH	5.0	32.0	0.0	37.8	8.2	14.7	0.2	2.1		2.4										2.4
BLACK R @ FARGO	41	14	224	3	145	57	21	11	0	475										475
	3.0	47.2	0.6	30.5	11.9	4.4	2.4	0.0		7.3										7.3
CLINTON R @ MT	42	412	111	5	137	23	75	0	0	763										763
	54.0	14.6	0.7	17.9	3.0	9.8	0.0	0.1		11.7										11.7
HURON R @ S MET	44	267	129	2	75	38	251	0	0	761										761
	35.1	17.0	0.3	9.8	4.9	32.9	0.0	0.0		11.7										11.7
MILL CR @ AVOCA	45	6	66	1	61	11	19	0	3	165										165
	3.8	38.5	0.6	37.1	6.4	11.8	0.1	1.8		2.5										2.5
RASIN R @ MR MDN	46	167	310	2	187	165	179	1	4	1015										1015
	16.5	30.5	0.2	18.4	16.3	17.6	0.1	0.4		15.6										15.6
ROUGE R @ W. JEF	47	313	39	4	78	19	28	0	0	480										480
	65.1	8.2	0.8	16.3	3.9	5.7	0.0	0.0		7.4										7.4
BLACK R @ ELY	48	70	18	28	232	56	7	0	0	410										410
	17.0	4.4	6.8	56.6	13.6	1.6	0.0	0.0		6.3										6.3
ROCKY @ BAREA	51	56	5	9	115	75	6	0	0	267										267
	21.0	1.9	3.2	43.2	28.3	2.4	0.0	0.0		4.1										4.1
CUYAHOGA @ IND	52	250	49	21	125	161	95	0	1	701										701
	35.6	7.0	3.0	17.8	23.0	13.5	0.0	0.1		10.7										10.7
EUCLED CR	63	13	0	0	9	1	1	0	0	23										23
	54.3	0.0	0.6	37.9	4.5	2.7	0.0	0.0		0.4										0.4
BIG CR @ CLWD	64	28	9	0	6	3	0	0	0	38										38
	75.6	0.1	0.6	15.4	7.8	0.5	0.0	0.0		0.6										0.6
COLUMN TOTAL	1938	1049	348	1662	729	749	15	15	15	6526										6526
TOTAL	29.7	16.1	5.6	25.5	11.2	11.5	0.2	0.2	0.2	100.0										100.0

(CONTINUED)

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FILE C00003  ICORATION DATE = 07/16/77  BUFFALO DIST., COY LAKE ERIE LAND RESOURCE INFO SYSTEM
..... C O N S T A B L A T I C N  U F  ..... DRAINAGE CHARACTERISTICS CODE
BASIN  SAMPLING STATION PASIN  BY EPCU  ..... PAGE 2 OF 2

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COOCCURRENCE TABLES

FILE C0C0R3 (CREATION DATE = 02/16/75) BUFFALO DIST., COE LAKE ENTIF LAND RESOURCE INFO SYSTEM

***** C O S S T A D U L A T I C N O F *****
 BASIN SAMPLING STATION BASIN BY CRCD DRAINAGE CHARACTERISTICS CODE *****
 ***** PAGE 1 OF 2 *****

COUNT ROW PCT	MISSING	VERY POORLY DRAINED			SOME POORLY DRAINED			MOD. WELL DRAINED			SOME EXCESSIVELY DRAINED			FROM TOTAL
		0	1	2	3	4	5	6	7	8	9	10	11	
BASIN	43	24	0	0	0	0	0	0	0	0	0	0	0	24
SASHABAM CR & CR	99.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
BLACK PLUM CR	45	3	1	2	8	0	0	0	0	0	0	0	0	14
	20.3	5.0	14.7	58.9	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
BLACK NEFF CR	50	0	0	0	5	1	0	0	0	0	0	0	0	6
	6.9	0.0	4.0	77.1	12.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
CUYAHOGA & OLD	53	178	30	11	44	62	66	0	0	0	0	0	0	392
	45.4	7.9	2.9	11.1	15.9	16.8	0.0	0.0	0.1	0.1	0.1	0.1	0.1	28.2
CUYAHOGA & PENIN	54	197	37	16	62	107	78	0	0	0	0	0	0	496
	39.7	7.5	2.8	12.6	21.7	15.7	0.0	0.0	0.1	0.1	0.1	0.1	0.1	35.7
CUYAHOGA & MIRAM	55	108	5	2	15	17	3	0	0	0	0	0	0	150
	72.2	3.1	1.3	10.0	11.4	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.8
LITTLE CUYAHOGA	56	32	5	1	2	6	15	0	0	0	0	0	0	62
	52.7	8.4	1.3	3.5	10.0	24.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4
MUD CR	57	5	4	1	8	10	2	0	0	0	0	0	0	29
	16.1	13.0	5.0	26.1	32.5	7.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1
YELLOW CREEK	58	3	2	0	4	15	6	0	0	0	0	0	0	31
	10.7	4.5	0.5	13.6	49.1	19.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2
FURNACE CR	59	2	0	1	5	10	1	0	0	0	0	0	0	20
	10.2	1.8	3.6	27.2	51.7	5.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4
BRANDYWINE CR	60	4	3	1	10	8	1	0	0	0	0	0	0	27
	16.4	9.7	3.6	36.3	29.1	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9
CHIPPENAW CR	61	3	0	0	8	5	1	0	0	0	0	0	0	16
	18.5	0.4	2.6	46.6	25.9	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3
COLUMN TOTAL	600	93	43	208	265	179	0	0	0	2	1390	100.0	100.0	
(CONTINUED)	43.2	6.7	3.1	15.0	19.1	12.9	0.0	0.0	0.1	0.1	100.0	100.0	100.0	

COOCCURRENCE TABLES

FILE C00033 CREATION DATE = 02/16/79) BUFFER DIST. CODE LAMP ERIE LAND RESOURCE INFO SYSTEM

..... C R O S S T A B L E A T I C N O F
 S A M P L I N G S T A T I O N B A S I N
 D R A I N A G E C H A R A C T E R I S T I C S C O D E
 P A G E 2

COUNT ROW PCT	MISSING	VERY POOR DRAINED	POORLY DRAINED	SOME POOR DRAINED	MOD. WELL DRAINED	WELL DRAINED	SOME EXCESSIVELY DRAINED		ROW TOTAL
							EXCESSIVELY DRAINED	EXCESSIVELY DRAINED	
		0	1	2	3	4	5	6	7
BASIN	62	27	6	5	33	22	5	0	97
TINKERS CR	27.7	5.9	5.1	33.8	22.3	5.2	0.0	0.0	7.0
MCSKINS CR	67	5	0	0	0	0	0	0	5
	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
MONTVILLE D	68	5	0	0	0	0	0	0	5
	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
HUBBARD RUN	70	3	1	4	4	2	0	0	15
	18.7	5.4	27.8	27.5	11.3	2.2	2.0	5.2	1.1
COLUMN TOTAL	600	93	43	208	265	179	0	2	1390
	43.2	6.7	3.1	15.0	19.1	12.9	0.0	0.1	100.0

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CUE LFIS CRUSSTABS UPDATE

FILE MF1 (CONEPTION DATE = 11/10/79) BUFFALO DIST. LUE LAKE ERDIE LRIS

BASIN SAMPLING STATION BASIN C R U S T A B U L A T I O N U F PERMEABILITY, LUM VALUE IN HUMIZ. IN P MM
1 OF 2
PAGE 1 OF 2

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FERM										ACM
COUNT	1	2	3	4	5	6	7	8	9	TOTAL
ROW PCT	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4
CUL PCT	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
ROI PCT	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
BASIA	548	2555	1492	466	132	65	5259			
MAWEE @ WATERVI	10.4	48.6	28.4	8.9	2.5	1.2	52.1			
	97.2	57.9	50.4	45.1	46.0	29.3				
	5.4	25.3	14.6	4.6	1.3	0.6				
PORTAGE @ WOODV	0	256	86	20	8	13	388			
	0.0	66.4	22.6	5.1	2.2	3.5	3.8			
	0.0	5.1	3.0	1.9	2.9	6.0				
	0.0	2.5	0.5	0.2	0.1	0.1				
SANLUISKY @ FMM	16	557	220	84	12	2	850			
	1.8	62.6	24.1	9.4	1.3	0.2	8.8			
	2.8	11.1	7.4	8.1	4.0	1.0				
	0.2	5.5	2.2	0.8	0.1	0.0				
MURCN @ MILAN	0	171	116	50	21	0	358			
	0.0	47.7	32.5	13.9	5.8	0.0	3.5			
	0.0	3.4	3.5	4.8	7.3	0.0				
	0.0	1.7	1.2	0.5	0.2	0.0				
VERPILION NR VER	0	87	92	23	9	0	210			
	0.0	41.4	43.7	10.8	4.1	0.0	2.1			
	0.0	1.7	3.1	2.2	3.0	0.0				
	0.0	0.9	0.9	0.2	0.1	0.0				
CATTARAUGUS @ GU	0	86	216	93	9	0	433			
	0.0	21.3	53.4	23.0	2.1	0.0	4.0			
	0.0	1.7	7.2	9.0	3.0	0.0				
	0.0	0.8	2.1	0.9	0.1	0.0				
CELAWARE NR ANGLU	0	3	1	1	1	0	6			
	0.0	46.4	14.2	10.7	26.8	1.8	0.1			
	0.0	0.1	0.0	0.1	0.5	0.0				
	0.0	0.0	0.0	0.0	0.0	0.0				
COLUMN TOTAL	564	5018	2562	1033	287	224	10088			
	5.6	49.7	29.4	10.2	2.8	2.2	100.0			

CCE LRS CROSSSTABS UPDATE

FILE MF1 ILREBILUN DATE = 11/16/78) BUFFALO DIST. CUE LAKE ERIE LRS

..... C K C S T A B U L A T I O N O F PERMEABILITY LUM VALUE IN HORIZ. IN P HR
 BASIN SAMPLING STATION BASIN BY PERM
 PAGE 2 OF 2

		PERM											
		COUNT											
		RQM PCT SURF .01 BELO .01 FELC .20 BELO .60 BELO 2.0 MELO 4.0 RQM											
		CUL PCT TO 0.09 TO 0.09 TO 0.59 TO 1.9 TO 5.9 OR GTR TOTAL											
		1.1	2.1	4.1	5.1	6.1	7.1						
BASIN													
37.		0	13	15	5	1	0						34
18 PILE CR NR B		0.0	38.7	44.5	13.5	2.9	0.0						0.3
		0.0	0.3	0.5	0.4	0.3	0.0						0.0
		0.0	0.1	0.2	0.0	0.0	0.0						0.0
38.		0	2	0	0	0	0						3
RACCON CR B W SP		0.0	75.8	3.0	3.0	3.0	15.2						0.0
		0.0	0.0	0.0	0.0	0.0	0.2						0.0
		0.0	0.0	0.0	0.0	0.0	0.0						0.0
39.		0	2	0	1	0	0						8
MILL CR B ERIE		0.0	19.8	56.8	16.0	1.2	6.2						0.1
		0.0	0.0	0.2	0.1	0.0	0.2						0.0
		0.0	0.0	0.0	0.0	0.0	0.0						0.0
60.		0	1287	718	292	94	141						2533
DIRECT DRAINAGE		0.0	50.8	28.3	11.5	3.7	5.6						25.1
		0.0	25.6	24.2	28.3	32.9	63.2						1.4
		0.0	12.8	1.1	2.9	0.9	1.4						10088
COLUMN TOTAL		564	5018	2562	1033	287	224						100.0
		5.6	49.7	25.4	10.2	2.8	2.2						100.0

CHI SQUARE = 1036.2447 WITH 50 DEGREES OF FREEDOM SIGNIFICANCE = 0.0000
 CRAMER'S V = 0.14333

NUMBER OF MISSING OBSERVATIONS = 1777

CCE LRIS CROSSTABS UPDATE

FILE MFI CREATION DATE = 11/10/788 BUFFALO DIST..CUE LAKE ERIE LRIS

***** C R O S S T A B U L A T I O N U F *****
 BASIN SAMPLING STATION BASIN BY PERM PERMEABILITY, LOM VALUE IN MORI2..IN P HR
 ***** PAGE 1 OF 3 *****

COUNT	ROW PCT	FIRM										TOTAL
		TO 0.09	TO 0.09	TO 0.09	TO 0.09	TO 0.09	TO 0.09	TO 0.09	TO 0.09	TO 0.09	TO 0.09	
1.	1.1	2.1	4.1	5.1	6.1	7.1	8.1	9.1	10.1	11.1	12.1	13.1
4.	16	273	167	50	6	1	1	1	1	1	1	513
SANUSKY @ MEX	3.0	53.3	32.5	9.8	1.1	0.3	0.3	0.3	0.3	0.3	0.3	23.8
5.	4	124	77	26	4	0	0	0	0	0	0	235
SANUSKY @ UP SA	1.9	52.7	32.5	10.9	1.6	0.1	0.1	0.1	0.1	0.1	0.1	10.9
6.	0	40	25	9	1	0	0	0	0	0	0	80
SANUSKY @ BUC	0.0	50.3	36.5	11.1	1.8	0.0	0.0	0.0	0.0	0.0	0.0	3.7
7.	10	60	43	7	0	1	1	1	1	1	1	121
TYMOCHTEE @ CRAW	8.5	49.7	35.2	5.8	0.2	0.5	0.5	0.5	0.5	0.5	0.5	9.6
8.	0	42	23	7	1	0	0	0	0	0	0	74
BRCKEN SMO @ NEV	0.0	56.7	31.8	9.6	1.9	0.0	0.0	0.0	0.0	0.0	0.0	3.4
9.	0	49	7	2	1	0	0	0	0	0	0	57
WOLF WEST @ BET	0.0	84.5	11.5	2.8	1.2	0.0	0.0	0.0	0.0	0.0	0.0	2.7
10.	0	40	2	1	0	0	0	0	0	0	0	45
WOLF EAST @ FT S	0.0	88.7	7.5	3.1	0.7	0.0	0.0	0.0	0.0	0.0	0.0	2.1
11.	0	132	27	14	2	0	0	0	0	0	0	176
MONEY CR @ MO	0.0	75.1	15.5	8.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	8.1
12.	0	124	27	12	2	0	0	0	0	0	0	165
MONEY CR @ 231	0.0	75.2	16.2	7.4	1.3	0.0	0.0	0.0	0.0	0.0	0.0	7.6
13.	0	110	25	10	1	0	0	0	0	0	0	146
MONEY CR @ MELM	0.0	75.4	17.2	6.6	0.9	0.0	0.0	0.0	0.0	0.0	0.0	6.8
14.	0	86	22	8	1	0	0	0	0	0	0	117
MONEY CR UP SIL	0.0	73.6	18.5	7.3	0.6	0.0	0.0	0.0	0.0	0.0	0.0	5.4
COLUMN TOTAL	30	1346	570	185	22	2	2	2	2	2	2	2156
TOTAL	1.4	62.4	26.4	8.6	1.0	0.1	0.1	0.1	0.1	0.1	0.1	100.0

(CONTINUED)

CCE LRIS CROSSSTABS UPDATE

FILE MFI ICREATION DATE = 11/10/78) BUFFALO DIST., COE LAKE ERIE LRIS

..... C R U S T A B U L A T I O N U F
 BASIN SAMPLING STATION BASIN BY PERM PERMEABILITY, LUM VALUE IN HORIZ., IN P HR
 PAGE 2 OF 3

COUNT	PERM	FELC										TOTAL
		TO 0.09	TO 0.09	TO 0.09	TO 0.09	TO 0.09	TO 0.09	TO 0.09	TO 0.09	TO 0.09	TO 0.09	
BASIN		1.1	2.1	4.1	5.1	6.1	7.1	8.1	9.1	10.1	11.1	12.1
15. MONEY CR UP ALC	0.0	64	21	7	0	0	0	0	0	0	0	92
	0.0	69.2	22.4	8.1	0.2	0.0	0.0	0.0	0.0	0.0	0.0	4.3
16. MONEY CR UP ATT	0.0	46	20	5	0	0	0	0	0	0	0	72
	0.0	64.3	28.1	7.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3
17. MONEY CR @ WEIS	0.0	13	11	1	0	0	0	0	0	0	0	25
	0.0	50.2	44.3	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2
18. MONEY CR MARSH	0.0	5	4	3	0	0	0	0	0	0	0	12
	0.0	44.0	31.2	24.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6
19. MONEY CR NR WAYN	0.0	6	7	1	0	0	0	0	0	0	0	15
	0.0	42.5	51.4	6.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7
20. M.C. TRIB BEL MU	0.0	4	0	0	0	0	0	0	0	0	0	5
	0.0	83.7	6.1	10.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
21. M.C. TRIB BUCKEY	0.0	3	1	0	0	0	0	0	0	0	0	5
	0.0	72.9	20.8	6.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
22. M.C. TRIB SILVER	0.0	20	2	1	0	0	0	0	0	0	0	23
	0.0	85.7	9.1	3.9	1.3	0.0	0.0	0.0	0.0	0.0	0.0	1.1
23. P.C. TRIB SILVER	0.0	13	1	1	0	0	0	0	0	0	0	15
	0.0	85.7	5.7	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7
24. M.C. TRIB SILVER	0.0	10	1	0	0	0	0	0	0	0	0	11
	0.0	85.0	12.4	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
25. M.C. TRIB AICH	0.0	15	0	0	0	0	0	0	0	0	0	16
	0.0	98.7	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7
COLUMN TOTAL	30	1346	570	185	22	2	2156					
TOTAL	1.4	62.4	26.4	8.6	1.0	0.1	100.0					

(CONTINUED)

CLE LAIS CRUSSTARS UPDATE

FILE MFI (CREATION DATE = 11/17/78) BUFFALO DIST., CUL LAKE ERIE LMS

BASIN SAMPLING STATION BASIN C H L S T A B U L A T I O N U F PERMEABILITY, LOW VALUE IN HORIZ., IN P MR
PAGE 3 OF 3

COUNT	PERM	1	SURF										RUN PCT	TOTAL
			TO 0.09	TO 0.09	TO 0.09	TO 0.09	TO 0.09	TO 0.09	TO 0.09	TO 0.09	TO 0.09	TO 0.09		
26.	0	15	2	1	1	0	0	0	0	0	0	19		
M.C. TRIB BR KN	0.0	79.6	17.2	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5		
27.	0	1	2	0	0	0	0	0	0	0	0	3		
M.C. TRIB a SCOT	0.0	48.4	51.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1		
28.	0	2	2	0	0	0	0	0	0	0	0	4		
P.C. TRIB ACKER	0.0	41.0	55.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2		
29.	0	10	0	1	0	0	0	0	0	0	0	11		
ROCK CR EAST	0.0	92.8	0.0	6.3	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.5		
30.	0	24	1	3	1	1	0	0	0	0	0	28		
ROCK CR WEST	0.0	86.1	2.2	9.3	2.1	0.0	0.0	0.0	0.0	0.0	0.0	1.3		
32.	0	1	2	0	1	0	0	0	0	0	0	5		
MURCN TRIB NORM	0.0	19.6	56.7	8.7	13.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2		
35.	0	12	35	13	0	0	0	0	0	0	0	64		
CATTARAUGUS S B	0.0	18.4	60.2	20.7	0.6	0.0	0.0	0.0	0.0	0.0	0.0	3.0		
COLUMN TOTAL	30	1366	570	185	22	2	2	2	2	2	2	2156		
TOTAL	1.4	62.4	26.4	8.6	2.0	0.2	0.2	0.2	0.2	0.2	0.2	100.2		

CONCURRENCE TABLES

02/21/79 PAGE 352

FILE C0C0R3 (CREATION DATE = 02/16/79) BUFFALO DIST., CCE LAKE ERIE LAND RESOURCE INFO SYSTEM

***** C R O S S T A B U L A T I O N O F P E R M E A B I L I T Y L O W V A L U E I N H O R I Z . I N P H R *****
 BASIN SAMPLING STATION BASIN BY PERM PERMEABILITY LOW VALUE IN HORIZ. IN P H R
 ***** PAGE 1 OF 2 *****

COUNT	ROW	PCT	PERM										MISSING	ROW
			0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0		
			1	2	3	4	5	6	7	8	9	10		TOTAL
BASIN			1	2	3	4	5	6	7	8	9	10		
40		0	56	49	24	12	5	8						154
BELLE R 3 MEMPH		0.0	36.4	32.0	15.3	8.0	3.4	5.0						2.4
41		0	40	295	77	31	17	14						475
BLACK R 3 FARLC		0.0	8.5	62.2	16.7	6.5	3.6	3.0						7.3
42		3	79	121	52	61	36	412						763
CLINTON R 3 MT		0.4	10.4	15.8	6.8	8.0	4.8	54.0						11.7
44		0	59	221	78	125	11	267						761
MURON R 3 S MET		0.0	7.7	29.1	10.3	16.4	1.4	35.1						11.7
45		0	52	78	11	10	7	6						165
MILL CR 3 AVOCA		0.0	31.6	47.5	6.6	6.2	4.3	3.8						2.5
46		0	412	201	127	100	7	167						1015
RASIN R 3 MR MON		0.0	40.6	19.8	12.6	9.9	0.7	16.5						15.6
47		0	33	56	18	42	18	312						480
ROUGE R 3 W-JEF		0.0	6.9	11.7	3.8	8.8	3.7	65.1						7.4
48		0	76	231	32	2	0	70						410
BLACK R 3 ELY		0.0	18.6	56.3	7.7	0.4	0.0	17.0						6.3
51		0	79	108	23	1	0	56						267
ROCKY 3 BAREA		0.0	29.5	40.4	8.6	0.4	0.1	21.0						4.1
52		0	203	139	92	16	1	250						701
CUYAHOGA 3 IND		0.0	28.9	19.9	13.1	2.4	0.1	35.6						10.7
63		0	3	1	6	0	0	13						23
EUCLID CR		0.0	14.8	6.1	24.8	0.0	0.0	54.3						0.4
64		0	4	4	1	0	0	28						38
BIG CR 3 CLVD		0.0	9.9	10.7	3.8	0.0	0.0	75.6						0.6
COLUMN TOTAL		3	1766	1681	613	412	113	1938						6526
TOTAL		0.0	27.1	25.8	9.4	6.3	1.7	29.7						100.0

(CONTINUED)

COCURRENCE TABLES

FILE COCUR3 (CREATION DATE = 02/16/79) BUFFALO DIST., COE LAKE ERIE LAND RESOURCE INFO SYSTEM

***** C P O S T A H U L A T I C N D F *****
 BASIN SAMPLING STATION BASIN BY PERM PERMEABILITY, LOW VALUE IN HORIZ., IN P HP
 ***** PAGE 2 OF 2 *****

COUNT ROW PCT	PERM											ROW TOTAL
	LESS THAN 0.1 SUR	LESS THAN 0.1 LCM	0.2 TO 0.59	0.6 TO 1.9	2.0 TO 5.9	6.0 OR GTR	MISSING					
BASIN	1	2	4	5	5	6	7	5				
CHAGRIN & WIL	0	96	84	27	11.1	1.9	2	32	13.1	245	3.9	
GRAND & PAIN	0	353	34	25	3.5	0.2	5	286	40.6	704	10.8	
ASHTABULA R	0	105	16	6	4.8	0.9	1	7	5.0	137	2.1	
CONNEAUT CR	0	116	42	13	7.1	2.2	2	11	5.6	189	2.9	
COLUMN TOTAL	3	1766	1691	613	9.4	6.3	113	1938	29.7	6526	100.0	

FILE C0CIN04 (CREATION DATE = 02/16/76) BUFFALO DIST., COE LAKE EPIE LAND RESOURCE INFO SYSTEM

[illegible]

COUNT ROW PCT	PERM	FLESHMAN		0.2 TO		0.5 TO		2.0 TO		6.0 OR		MISSING	ROW TOTAL
		0.1 2	LOW 0	0.59 4	1.9 5	5.9 6	GIR 7						
43	BASEIN	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	24	24
49	SASHABAM CR @ DR	2.9	73.2	3.7	1.0	0.0	0.0	0.0	0.0	0.0	0.0	95.5	1.0
50	BLACK PLUM CR	13.2	75.4	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	14
53	BLACK NEFF CR	82	60	62	10	2.5	0.1	178	45.4	392	28.2	0.5	392
54	CUYAHOGA @ OLD	131	82	73	12	0.1	1	197	35.7	496	10.8	6.2	496
55	CUYAHOGA @ PENIN	26.5	16.5	14.0	2.4	0.1	0.1	38.7	108	150	2.1	2.1	150
56	CUYAHOGA @ HIRAM	15.8	7.6	3.9	0.5	0.0	0.0	72.2	32	64	2.2	2.2	64
57	LITTLE CUYAHOGA	10.5	9	11	2	0.0	0.0	52.7	5	25	2.1	2.1	25
58	MUD CR	43.7	29.0	9.7	1.6	0.0	0.0	16.1	3	31	2.2	2.2	31
59	YELLOW CREEK	17	5	5	1	0.0	0.0	10.7	0	27	1.9	1.9	27
60	FURNACE CR	55.5	15.4	14.6	3.8	0.0	0.0	16.4	3	1.9	1.9	1.9	1.9
61	BRANDYWINE CR	11	5	1	0	0.0	0.0	2	10.2	20	1.4	1.4	20
62	CHIPPENVA CR	56.5	27.0	6.1	0.2	0.0	0.0	10.2	3	1.9	1.9	1.9	1.9
63	COLUMN TOTAL	344	262	172	29	0.1	0.1	600	45.2	1390	100.0	100.0	1390
64	PERM TOTAL	26.7	17.4	12.4	2.1	0.1	0.1	45.2	3	1.9	1.9	1.9	1.9

CONTINUED

COOCCURRENCE TABLES

FILE C0C0R3 (CREATION DATE = 02/16/79) BUFFALO DIST..CDE LAKE ERIE LAND RESOURCE INFO SYSTEM

***** C R O S S T A B U L A T I C N O F *****
 BASIN SAMPLING STATION BASIN BY PERM PERMEABILITY,LOW VALUE IN HORIZ.,IN P HR
 ***** PAGE 2 OF 2 *****

	PERM										PCW TOTAL
	COUNT	1 POW PCT	LESS THAN 0.1	0.1 LOW	0.2 TO 0.59	0.6 TO 1.9	2.0 TO 5.9	6.0 OR GR	MISSING		
BASIN	62	34	28	6	2	0	0	27	97		
TINKERS CR	67	35.6	29.9	6.3	1.6	0.0	0.0	27.7	7.0		
HOSKINS CR	67	0	0	0	0	0	0	5	5		
		0.0	0.0	0.0	0.0	0.0	0.0	100.0	0.4		
MONTVILLE D	68	0	0	0	0	0	0	5	5		
		0.0	0.0	0.0	0.0	0.0	0.0	100.0	0.4		
HUBBARD RUN	70	47.2	12.5	6.4	1	1	7.1	18.7	1.1		
COLUMN TOTAL	344	242	172	29	2	600	1390	100.0			
	24.7	17.4	12.4	2.1	0.1	43.2	100.0				

FILE #F1 (CREATION DATE = 11/07/79) BUFFALO DIST., COF LAKE ERIE LFIS

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FILE      MPI      (CREATION DATE = 11/07/79)  BUFFALO DIST., COT LAKE EPIE (FIS
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BASIN     SAMPLING STATION PASIN          L U S T A B U L A T I O N          F
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BY TEXT   TEXTURE OF SURFACE HORIZON
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***** PAGE 1 OF 4 *****
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[illegible]

COOCCURRENCE TABLES

FILE #F1 CREATION DATE = 11/07/78) BUFFALO DIST., COE LAKE ERIE LRIS

***** CROSS TABULATION OF TEXTURE OF SURFACE HORIZON *****
 BASIN SAMPLING STATION BASIN BY TEXT ***** PAGE 3 OF 4

COUNT	TEXT	SILT CLAY										SANDY LOAM	SILT	VESANDY LOAM	SANDY LOAM	TOTAL
		1-11	1-21	2-11	2-21	2-31	3-11	3-21	3-31	3-41	4-11					
ADM PCT	CLAY	1-11	1-21	2-11	2-21	2-31	3-11	3-21	3-31	3-41	4-11					
TOT PCT																
37.		0	0	0	0	0	1	33	0	0	0	0	0	0	0	34
18 MILE CP NR 8		0.0	0.0	0.0	0.0	0.0	1.8	55.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
		0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30.		0	0	0	0	0	0	3	0	0	0	0	0	0	0	3
RACON CR 2 M SP		0.0	0.0	0.0	0.0	0.0	0.0	11.8	0.0	0.0	0.0	15.2	0.0	0.0	0.2	0.0
		0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
39.		0	0	0	0	0	0	7	0	0	0	0	0	0	0	8
MILL CR 2 ERIE		0.0	0.0	0.0	0.0	0.0	0.0	17.7	0.0	0.0	0.0	4.9	0.0	0.0	0.1	0.1
		0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80.		233	277	314	99	10	265	944	12	8	39	2548	0	0	39	2548
DIRECT DRAINAGE		9.2	10.9	12.3	3.9	0.4	10.4	37.1	0.5	0.3	2.3	25.1	0.3	0.3	2.3	25.1
		16.6	52.7	16.6	54.2	18.1	21.3	24.9	56.6	72.2	19.7		72.2	56.6	19.7	
		2.3	2.7	3.1	1.0	0.1	2.6	9.3	0.1	0.1	0.6		0.1	0.1	0.6	
COLUMN TOTAL		1404	525	1896	182	95	1244	3786	22	11	298	10148	11	22	298	10148
TOTAL		13.8	5.2	18.7	1.8	0.5	12.3	37.3	0.2	0.1	2.9	100.0	0.1	0.2	2.9	100.0

(CONTINUED)

COCURRENCE TABLES

FILE #P1 (CREATION DATE = 11/07/79) BUFFALO DIST. COE LAKE EPIE LRIS

BASIN SAMPLING STATION PASIN C R S T A B U L A T I O N O F TEXTURE OF SURFACE HORIZON BY TEXT PAGE 2 OF 4

COUNT	TEXT	LOAMY		LOAMFINE		POW
		SAND		MUCK		
ROW	COL	IFN	SANDY	FINE	SAND	TOTAL
FOY	PCI	ILDAN	FOY	PCI	ILDAN	FOY
BASIN	1.	105	34	19	84	65
	2.	2.0	0.6	0.4	1.6	1.2
	3.	37.5	36.1	53.1	37.3	74.9
MAUMEE @ WATERVI	1.	1.0	0.3	0.2	0.8	0.6
	2.	14	0	0	23	0
	3.	3.6	0.1	0.0	6.0	0.0
PORTAGE @ WOODV	1.	4.9	0.5	0.0	18.2	0.0
	2.	0.1	0.0	0.0	0.2	0.0
	3.	10	1	0	4	5
SANDUSKY @ FRM	1.	1.1	0.1	0.0	0.5	0.5
	2.	3.5	1.3	0.3	2.0	5.4
	3.	0.1	0.0	0.0	0.0	0.0
HURON @ MILAN	1.	9	0	0	6	7
	2.	2.6	0.1	0.1	1.6	2.0
	3.	0.1	0.2	1.1	2.5	8.0
VERMILION NP VER	1.	0.1	0.0	0.0	0.1	0.1
	2.	1	0	0	1	2
	3.	0.5	0.0	0.0	0.4	0.8
CATAWAUGUS @ GO	1.	0.4	0.0	0.0	0.4	1.9
	2.	0.0	0.0	0.0	0.0	0.0
	3.	2	0	0	0	2
DELAWARE NP ANGO	1.	0.5	0.0	0.0	0.0	0.5
	2.	0.0	0.0	0.0	0.0	2.5
	3.	0.0	0.0	0.0	0.0	0.0
COLUMN TOTAL	1.	0	0	0	1	0
	2.	3.6	0.0	0.0	16.1	0.0
	3.	0.1	0.0	0.0	0.4	0.0
TOTAL	1.	0.0	0.0	0.0	0.0	0.0
	2.	281	95	37	226	87
	3.	2.8	0.9	0.4	2.2	0.9

10148
103.0

(CONTINUED)

COOCCURRENCE TABLES

FILE PFI (CREATION DATE = 11/07/78) BUFFALO DIST. COE LAKE ERIE LRIS

..... C R O S S T A D U L A T I O N U F
 BASIN SAMPLING STATION BASIN BY TEXT TEXTURE OF SURFACE HORIZON
 PAGE 4 OF 4

	TEXT										POM TOTAL
	COUNT	LOAN	SANDY	FINE	LOAMY	LOAMY	FINE	MUCK	SAND		
	ROW PCT	COL PCT	LOAN	SAND	SAND	SAND	SAND	SAND	SAND		
	TOT PCT	4.21	5.21	5.41	5.51	6.11					
BASIN	37.	1	0	0	0	0	0	0	0	0	34
10 MILE CR NR B	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
RACON CR @ W SP	38.	0	0	0	0	0	0	0	0	0	3
	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MILL CR @ ERIE	39.	0	0	0	0	0	0	0	0	0	8
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
DIRECT DRAINAGE	80.	138	59	17	106	6	2548				25.1
	5.4	2.3	2.7	4.2	0.2	7.1					
	49.3	61.9	45.2	47.2	1.0	0.1					
	1.4	0.6	0.2	1.0	0.1						
COLUMN TOTAL	281	95	37	226	87	10148					100.0
	2.8	0.9	0.4	2.2	0.9						

NUMBER OF MISSING OBSERVATIONS = 1717

CCE LRIS CRUSSTABS UPDATE

FILE MFI CREATION DATE = 11/10/781 BUFFALO DIST., CUE LAKE ERLE LRIS

***** C R U S S T A B U L A T I O N U F *****
 BASIN SAMPLING STATION BASIN BY TEXT TEXTURE OF SURFACE HORIZON *****
 ***** PAGE 1 OF 3 *****

COUNT	TEXT	CLAY	SILTY CLAY	SILT CLAY	SILT CLAY	LOAM	SILT LOAM	SANDY LOAM	FN SANDY LOAM	LOAMY SAND	LOAM FINE SAND	MUCK	TOTAL
4.	4.	1.1	1.2	1.1	1.1	3.1	3.2	4.1	4.2	5.4	5.5	6.1	516
5.	5.	1.5	1.1	1.1	1.1	16	361	2	6	0	0	0.3	23.8
6.	6.	1.0	0.3	19.0	3.1	7	177	0.1	1.3	0	0	0	235
7.	7.	0.0	0.0	15.5	1.3	1	66	0.0	0.8	0	0	0	10.9
8.	8.	0.0	0.0	13.5	3.7	3	81.5	0.1	1.2	0	0	0	80
9.	9.	0.0	0.0	30	4.9	3	24	0.0	0.2	0	0	0	3.7
10.	10.	0.0	0.2	14	31.0	2	29	0.0	0.2	0	0	0	121
11.	11.	0.0	0.0	17.1	4.2	7	134	0.0	0.4	0	0	0	5.6
12.	12.	0.0	0.2	25	17.6	6	126	0.0	0.4	0	0	0	74
13.	13.	0.0	0.2	21	18.7	3	112	0.0	0.5	0	0	0	3.4
14.	14.	0.0	0.3	21.2	1.8	2	86	0.0	0.5	0	0	0	37
COLUMN TOTAL		15	12	450	57	1580	73.1	3	16	0	0	1	261
TOTAL		0.7	0.6	20.8	2.6	73.1	0.2	0.2	0.8	0.0	0.0	1.2	100.0

(CONTINUED)

FILE #F1 (CREATION DATE = 11/10/78) BUFFALO DIST., CUE LAKE ENIE LKIS

FILE	NO.1	(CREATION DATE = 11/10/78)	BUFFALO DIST.	CUE LAKE	EMIE LK15
BASIN					
SAMPLING STATION					
BASIN					
CHOS T A B U L A T I O N					
BY TEXT					
TEXTURE OF SURFACE					
HORIZON					
PAGE					
2 OF 3					

COUNT ROW PCT	TEXT CLAY	SILTY CLAY		SILTCLAY LOAM		SILTY LOAM		FA SANDY LOAM		LOAMY SAND		LOAMFINE SAND		MUCK	ROW TOTAL
		1-11	1-21	2-11	3-11	3-21	4-11	4-21	5-41	5-51	6-11				
15.	BASIN	0	0	2C	1	67	0	0	0	0	0	0	0	0	93
4-3	MONEY CR UP ALC	0.0	0.1	22.1	1.3	72.6	0.0	0.4	0.0	0.0	0.0	0.0	3.5	0	4-3
16.	MONEY CR UP ATT	0	0	1E	0	50	0	0	0	0	0	0	3	0	73
3-4	MONEY CR UP ATT	0.0	0.0	25.2	0.3	69.6	0.0	0.6	0.0	0.0	0.0	0.0	4.4	0	3-4
17.	MONEY CR @ WELS	0	0	7	0	18	0	0	0	0	0	0	0	0	25
1-2	MONEY CR @ WELS	0.0	0.0	27.8	0.4	70.6	0.0	0.8	0.0	0.0	0.0	0.0	0.4	0	1-2
18.	MONEY CR MARSH	0	0	3	0	6	0	0	0	0	0	0	3	0	13
0-6	MONEY CR MARSH	0.0	0.0	25.0	0.0	50.8	0.0	0.0	0.0	0.0	0.0	0.0	24.2	0	0-6
19.	MONEY CR MR WAYN	0	0	5	0	9	0	0	0	0	0	0	0	0	15
0-7	MONEY CR MR WAYN	0.0	0.0	34.2	0.7	63.7	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0	0-7
5	M.C. TRIB BEL MO	0	0	1	1	4	0	0	0	0	0	0	0	0	5
0-2	M.C. TRIB BEL MO	0.0	0.0	12.2	12.2	75.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0-2
5	M.C. TRIB BUCKEY	0	0	0	0	5	0	0	0	0	0	0	0	0	5
0-2	M.C. TRIB BUCKEY	0.0	0.0	4.2	0.0	95.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0-2
23	M.C. TRIB SILVER	0	0	2	0	20	0	0	0	0	0	0	0	0	23
1-1	M.C. TRIB SILVER	0.0	0.4	8.2	2.2	87.9	0.0	0.9	0.0	0.0	0.0	0.0	0.4	0	1-1
15	M.C. TRIB SILVER	0	0	1	0	14	0	0	0	0	0	0	0	0	15
0-7	M.C. TRIB SILVER	0.0	0.0	6.5	0.6	92.3	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0	0-7
11	P.C. TRIB SILVER	0	0	0	0	11	0	0	0	0	0	0	0	0	11
0-5	P.C. TRIB SILVER	0.0	0.0	4.4	3.9	94.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0-5
16	M.C. TRIB AICH	0	0	4	0	11	0	0	0	0	0	0	0	0	16
0-7	M.C. TRIB AICH	0.0	0.6	25.6	0.6	73.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0-7
2161	COLUMN TOTAL	15	12	45C	57	158C	3	16	0	0	0	1	25	0	2161
100-0	TOTAL	0.7	0.6	20.8	2.6	73.1	0.2	0.8	0.0	0.0	0.0	0.0	1.2	0	100-0

(CONTINUED)

FILE MEI (CREATION DATE = 11/12/78) BUFFALO CIST., COE LAKE ERIE LIPS

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FILE      MFI      (CREATION DATE = 11/10/78)  BUFFALO DIST., COE LAKE ERIE LAIS
*****
R          C R U S T A B U L A T I O N  U F
R          S A M P L I N G  S T A T I O N  B A S I N
R          B Y  T E X T
R          T E X T U R E  C F  S U R F A C E  M U R I Z O N
R          P A G E  3  O F  3

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TEXT	COUNT	CLAY	SILTY CLAY	SILTCLAY LLAM	LOAM	SILTY LUAM	SANDY LOAM	FM SANDY LOAM	LUAMY SAND	LOAMINE SAND	MUCK	ROW TOTAL
BASIN	26.	0.0	0.0	3	0	16	0	0	0	0	0	19
M.C. TRIB BR KN		0.0	0.0	16.8	0.0	82.7	0.0	0.5	0.0	0.0	0.0	0.9
M.C. TRIB S SGT	27.	0.0	0.0	1	0	2	0	0	0	0	0	3
		0.0	0.0	25.8	0.0	74.2	0.0	0.0	0.0	0.0	0.0	0.1
M.C. TRIB ACKER	28.	0.0	0.0	2	0	2	0	0	0	0	0	4
		0.0	0.0	59.0	0.0	41.0	0.0	0.0	0.0	0.0	0.0	0.2
ROCK CR EAST	29.	0.0	0.0	1	0	10	0	0	0	0	0	11
		0.0	0.0	6.2	2.7	91.0	0.0	0.0	0.0	0.0	0.0	0.5
ROCK CR WEST	30.	0.0	0.0	2	2	24	0	0	0	0	0	28
		0.0	0.0	5.7	8.9	85.4	0.0	0.0	0.0	0.0	0.0	1.3
MUPEN TRIB NORM	32.	0.0	0.0	0	0	4	0	0	0	0	0	5
		0.0	0.0	0.0	8.7	80.4	0.0	4.3	0.0	6.5	0.0	0.2
CATTARAUGUS S B	35.	0.0	0.0	0	0	63	0	1	0	0	0	64
		0.0	0.0	0.0	0.0	97.5	0.5	1.6	0.0	0.0	0.5	3.0
COLUMN	15	12	450	57	1580	3	16	0	1	25	2161	2161
			20.6	2.6	73.1	0.2	0.8	0.0	0.0	1.2	100.0	100.0

CHI SQUARE = 349.75517 WITH 252 DEGREES OF FREEDOM
CRAMER'S V = 0.13412
SIGNIFICANCE = 0.0000

NUMBER OF MISSING OBSERVATIONS = 477

COCCURRENCE TABLES

FILE C0C0R3 CREATION DATE = 02/16/791 BUFFALO DIST., COE LAKE ERIE LAND RESOURCE INFO SYSTEM

***** C R O S S T A B U L A T I O N O F *****
 BASIN SAMPLING STATION BASIN BY TEXTNUM NUMERICAL TEXTURE CODE
 ***** PAGE 1 OF 4

	COUNT	MISSING	CLAY	SILT	CLAY	LOAM	LOAM	SILT	VFSANDY	SANDY	F	ANDY	SAND	RD4
ROW	PCT			LOAM	LOAM			LOAM	LOAM	LOAM	L	L		TOTAL
BASIN	40	0	1	11	21	22	31	32	33	41	42	51		
BELLE R @ MEMPH	8	0	0	0	2	2	76	6	6	24	3	0		154
	5.0	0.0	0.0	1.2	1.3	49.4	3.6	3.6	4.0	15.6	1.8	0.0		2.4
BLACK R @ FARGO	14	0	0	0	0	0	292	3	5	37	24	4		475
	3.0	0.0	0.0	0.9	0.1	61.6	0.6	0.6	1.1	7.7	5.0	0.9		7.3
CLINTON R @ MT	412	3	8	45	99	1	85	1	1	11.1	15	16		763
	54.0	0.4	1.1	5.8	13.0	0.1	11.1	0.1	0.1	11.1	1.9	2.1		11.7
MURON R @ S MET	267	0	6	16	173	4	94	4	0	12.4	8	0		761
	35.1	0.0	0.7	2.1	22.8	0.6	1.0	0.6	0.0	12.4	1.0	0.0		11.7
MILL CR @ AVOCA	6	0	0	0	95	2	26	2	5	15.5	9	0		165
	3.8	0.0	0.1	0.1	51.8	1.2	3.1	1.2	3.1	15.5	5.2	0.0		2.5
RASIN R @ MON	167	0	130	57	369	26	147	26	13	14.7	21	0		1015
	16.5	0.0	12.8	5.6	36.4	2.5	14.5	2.5	1.3	14.5	2.1	0.0		15.6
ROUGE R @ W. JEF	313	0	5	7	43	12	24	12	0	24	13	0		480
	65.1	0.0	1.1	1.4	9.0	2.4	4.9	2.4	0.0	4.9	2.7	0.0		7.4
BLACK R @ FLY	70	0	36	0	15	286	0	15	0	0	0	0		410
	17.0	0.0	8.8	0.0	3.8	69.8	0.0	3.8	0.0	0.1	0.1	0.0		6.3
ROCKY @ BAREA	56	0	7	0	9	194	0	9	0	1	0	0		267
	21.0	0.0	2.7	0.0	3.3	72.6	0.0	3.3	0.0	0.2	0.0	0.0		4.1
CUYAHOGA @ IND	250	0	8	0	61	360	0	61	0	6	0	0		731
	35.6	0.0	1.2	0.0	8.7	51.4	0.0	8.7	0.0	0.9	0.0	0.0		10.7
EUCLED CR	13	0	0	0	0	10	0	10	0	0	0	0		23
	54.3	0.0	0.2	0.0	1.2	44.2	0.0	44.2	0.0	0.0	0.0	0.0		0.4
BIG CR @ CLVD	28	0	0	0	0	9	0	9	0	0	0	0		38
	75.6	0.0	0.6	0.0	1.0	22.9	0.0	22.9	0.0	0.0	0.0	0.0		0.5
COLUMN TOTAL	1038	3	215	127	1246	1790	31	454	0.5	7.0	101	20		6526
TOTAL	29.7	0.0	3.3	1.9	19.1	27.4	0.5	1.5	0.3	1.5	0.3	0.3		100.0

(CONTINUED)

COOCCURRENCE TABLES

FILE C00003 (CREATION DATE = 02/16/79) BUFFALO DIST., COE LAKE ERIE LAND RESOURCE INFO SYSTEM

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TEXTNUM

	COUNT	IFINE	LOAMY	LOAMFINE	PUCK	ROM
	ROM PCT	SAND	SAND	SAND		TOTAL
BASIN	40	52	54	55	61	
BELLE R @ MEMPH	15	0	15	0	12	154
	0.2	0.2	9.9	0.1	7.8	2.4
BLACK R @ FARGO	41	0	46	0	45	475
	0.0	0.0	9.6	0.0	9.5	7.3
CLINTON R @ MT	42	35	26	9	9	763
	4.6	3.4	1.2	1.2	1.2	11.7
HURON R @ S MET	44	5	105	5	78	761
	0.7	13.7	0.6	10.2		11.7
MILL CR @ AVOCA	45	1	14	0	16	165
	0.7	8.8	0.0	9.8		2.5
RASIN R @ MR MON	46	6	37	1	41	1015
	0.6	3.6	0.1	4.0		15.6
RCUGE R @ W. JEF	47	3	40	19	2	480
	0.6	8.4	4.0	0.3		7.4
BLACK R @ ELY	48	0	0	1	1	410
	0.0	0.0	0.2	0.2		6.3
RECKY @ BAREA	51	0	0	0	1	267
	0.0	0.1	0.0	0.2		4.1
CUYAHOGA @ IND	52	0	1	0	15	701
	0.0	0.1	0.0	2.0		10.7
EUCID CR	63	0	0	0	0	23
	0.0	0.0	0.0	0.0		0.4
BIG CR @ CLVD	64	0	0	0	0	38
	0.0	0.0	0.0	0.0		0.6
COLUMN TOTAL	51	288	41	219		6526
	0.8	4.4	0.6	3.4		100.0

(CONTINUED)

COOCCURRENCE TABLES

FILE C0C0R3 (CREATION DATE = 02/16/79) BUFFALO DIST., COE LAKE FRIE LAND RESOURCE INFO SYSTEM

***** C R O S S T A B U L A T I O N F *****
 ***** BY TEXTNUM NUMERICAL TEXTURE CODE *****
 BASIN SAMPLING STATION BASIN ***** PAGE 3 OF 4 *****

	COUNT ROW PCT	TEXTNUM										FN SANDY SAND					TOTAL
		MISSING	CLAY	SILTCLAY	CLAY	LOAM	SILT	LOAM	VF SANDY	SANDY	LOAM	LOAM	LOAM	LOAM	LOAM	LOAM	
BASIN	65	0	11	21	22	31	32	33	41	42	51	52	53	54	55	56	245
CHAGRIN @ WIL	66	32	0	2	0	10	195	0	4	0	0	0	0	0	0	0	3.8
		13.1	0.0	1.0	0.0	4.1	79.6	0.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	704
GRAND @ PAIN	69	286	0	6	0	4	396	0	3	4	0	0	0	0	0	0	10.8
		40.6	0.0	0.9	0.0	0.6	56.2	0.0	0.4	0.5	0.0	0.0	0.0	0.0	0.0	0.0	137
ASHTABULA R	71	7	0	0	0	2	124	0	1	1	0	0	0	0	0	0	2.1
		5.0	0.0	0.1	0.0	1.3	91.1	0.0	0.6	0.9	0.0	0.0	0.0	0.0	0.0	0.0	189
CCNEAUT CR	71	11	0	0	0	4	163	0	3	4	0	0	0	0	0	0	2.9
		5.6	0.0	0.0	0.0	2.2	86.4	0.0	1.5	2.3	0.0	0.0	0.0	0.0	0.0	0.0	6526
COLUMN TOTAL	1938	3	215	127	1246	1790	27.4	31	454	101	20	0.3	0.3	0.3	0.3	0.3	100.0
TOTAL	29.7	0.0	3.3	1.9	19.1	27.4	0.5	7.0	1.5	1.5	0.3	0.3	0.3	0.3	0.3	0.3	

(CONTINUED)

COOCCURRENCE TABLES

FILE C00UP3 CREATION DATE = 22/16/79) BUFFALO DIST. CODE LAKE ERIE LAND RESOURCE INFO SYSTEM

***** C R O S S T A B U L A T I O N O F *****
 BASIN SAMPLING STATION BASIN BY TEXTNUM NUMERICAL TEXTURE CODE ***** PAGE 4 OF 4

COUNT ROW PCT	TEXTNUM	TEXTNUM					ROW TOTAL
		IFINE SAND	LOAMY SAND	LOAMFINE SAND	MUCK		
65	BASIN	52	54	55	61		
66	CHAGRIN @ WIL	0	1	1	1		245
69	GRAND @ PAIN	0.0	0.3	0.2	0.2		3.8
71	ASHTABULA R	0	4	1	0		704
	CCNEAUT CR	0.0	0.5	0.1	0.1		10.8
		0	0	2	0		137
		0.0	0.0	1.2	0.0		2.1
		0	0	4	0		189
		0.0	0.0	2.0	0.0		2.9
COLUMN TOTAL		51 0.8	288 4.4	41 0.6	219 3.4		6526 100.0

COOCCURRENCE TABLES

FILE C0C0R3 ICREATION DATE = 02/16/79) BUFFALO DIST., CODE LAKE ERIE LAND RESOURCE INFO SYSTEM

***** C R O S S T A B U L A T I O N O F *****
 BASIN SAMPLING STATION BASIN BY TEXTNUM NUMERICAL TEXTURE CODE *****
 ***** PAGE 1 OF 2 *****

		TEXTNUM											ROW TOTAL	
COUNT	ROW PCT	MISSING	SILTCLAY LOAM	SILTY LOAM	SANDY LOAM	FN SANDY LOAM	LOAMFNE SAND	LOAMFNE MUCK					ROW TOTAL	
		0	21	31	32	41	42	54	55	61				
RASIN														
42		24	0	0	0	0	0	0	0	0				
SASHABAM CR @ CR		90.5	0.0	0.0	0.0	0.3	0.0	0.3	0.0	0.0				
45		3	2	9	8	0	0	0	0	0				
BLACK PLUM CR		20.3	18.2	1.3	60.3	0.0	0.0	0.0	0.0	0.0				
50		0	0	0	6	0	0	0	0	0				
BLACK NEFF CR		6.9	3.4	0.0	89.7	0.0	0.0	0.0	0.0	0.0				
53		178	2	45	154	3	0	1	0	10				
CUYAHOGA @ OLD		45.4	0.4	11.5	39.3	0.8	0.0	0.1	0.0	2.5				
54		197	4	52	228	4	0	1	0	12				
CUYAHOGA @ PENIN		39.7	0.7	10.4	45.9	0.8	0.0	0.1	0.0	2.3				
55		108	0	4	36	1	0	0	0	1				
CUYAHOGA @ HIRAM		72.2	0.2	2.8	23.9	0.5	0.0	0.0	0.0	0.4				
56		32	0	9	18	0	0	0	0	2				
LITTLE CUYAHOGA		52.7	0.8	13.9	29.4	0.4	0.0	0.0	0.0	2.9				
57		5	2	2	19	0	0	0	0	1				
MUD CR		16.1	5.6	8.0	65.4	0.5	0.0	0.0	0.0	4.4				
58		10.7	0.6	9.9	76.7	0.7	0.1	0.0	0.0	1.3				
YELLOW CREEK														
59		2	0	1	17	0	0	0	0	0				
FURNACE CR		10.2	0.7	3.6	85.5	0.0	0.0	0.0	0.0	0.0				
60		4	1	1	21	0	0	0	0	0				
BRANDYWINE CR		14.4	2.7	4.0	75.9	0.4	0.0	0.0	0.0	0.7				
61		3	0	1	13	0	0	0	0	0				
CHIPPewa CR		18.5	2.6	3.4	75.2	0.2	0.0	0.0	0.0	0.0				
COLUMN TOTAL		600	15	122	611	11	1	1	1	27				
TOTAL		43.2	1.1	8.8	44.0	0.8	0.1	0.1	0.1	1.9				

(CONTINUED)

COOCCURRENCE TABLES

FILE C0CUB3 (CREATION DATE = 02/16/79) BUFFALO DIST., CODE LAKE ERIE LAND RESOURCE INFO SYSTEM

***** C R O S S T A B U L A T I O N O F *****
 BASIN SAMPLING STATION BASIN BY TEXTNUM NUMERICAL TEXTURE CODE *****
 ***** PAGE 2 OF 2 *****

COUNT ROW PCT	MISSING	TEXTNUM										LOAMFINE SAND	MUCK	RDW TOTAL
		SILTCLAY LOAM	SILTY LOAM	SANDY LOAM	FN SANDY LOAM	SANDY LOAM	FN SANDY LOAM	SANDY LOAM	FN SANDY LOAM	SANDY LOAM	FN SANDY LOAM			
62	27	3	4	60	1	0	0	0	0	0	0	0	0	97
TINKERS CR	27.7	3.6	3.9	62.2	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	7.0
67	5	0	0	0	0	0	0	0	0	0	0	0	0	5
WOSKINS CR	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
68	5	0	0	0	0	0	0	0	0	0	0	0	0	5
MONTVILLE D	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
70	3	0	1	8	1	1	1	0	0	0	0	0	0	15
HUBBARD RUN	18.7	0.0	6.7	53.8	5.2	8.1	8.1	0.0	0.0	9.6	0.0	0.0	0.0	1.1
COLUMN TOTAL	600	15	122	611	11	1	1	1	1	1	1	27	1390	100.0
43.2	1.1	8.8	44.0	0.8	0.1	0.1	0.1	0.1	0.1	0.1	0.1	1.9	100.0	

References

1. Cahill, T. H., "Lake Erie Land Resources Information System," LEWMS Technical Report, U. S. Army Corps of Engineers, Buffalo, New York, February 1978.

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